

# NATIONAL LIBRARY OF MEDICINE Bethesda, Maryland

### Domestic Medicine:

OR, A

# TREATISE

ON THE

PREVENTION AND CURE

OF

## DISEASES,

BY

REGIMENANDSIMPLE MEDICINES.

WITH

An APPENDIX, containing a DISPENSATORY for the Use of Private Practitioners.

BY WILLIAM BUCHAN, M.D. Fellow of the Royal College of Physicians, Edinburgh.

THE FIRST VERMONT Edition, containing all the IMPROVEMENTS.

FAIRHAVEN:
PRINTED BY AND FOR JAMES LYON,
AT VOLTAIRE'S HEAD.
1798.

O mes honones artem medicam nosse oportet. - Sapientiæ cognitionem medecinæ fororem ac contubernalem esse puto.

HIPPOCRATES.

Pilinque medendi scientia, sapientiæ pars habebatur.—Rationalem que ruto medicinam esse debere.

CELSUS.

Que adredum fanitas omnium rerum pretium excedit, omnisque i lectas sur lamentum est, ita scientia vitæ ac sanitatis tuendæ enpium nobinissima, amnibusque hominibus commendatissima este dabet.

HOFFMAN.

# Sir JOSEPH BANKS, Bart.

PRESIDENT OF THE ROYAL SOCIETY.

SIR,

THE DOMESTIC MEDICINE having been honored, on its first appearance, with the patronage of your learned and worthy Predecessor, the late our John Pringle, I beg leave, in a more improved state, to dedicate it to you, as a small, but since e testimony of that veneration and esteem with which I have long beheld the Man who, born to ease and affluence, had resolution to encounter the dangers of unknown seas and distant climes, in pursuit of useful Science; and whose constant object has been to render that Science subservient to the happiness and rivilization of Society.

I have the honor to be, with great respect,

SIR,

Your most obedient servant,

W. BUCHAN.

London, Nov. 10, 1783.

### ADVERTISEMENT.

TWENTY years have now elapsed since the first Edition of this Book made its appearance. During this period, the Author, having been in constant practice, has taken occasion to improve several articles, which were with less accuracy inserted in the more early impressions. For this he has been censured by some, but the more candid and discerning must approve his conduct.—It would be unpardonable in an Author to suffer an error in a book, on which health and life may depend, to stand uncorrected; nor would it be much less so to perceive an omission, and leave it unsupplied. His improvements, however, are not the result of mercenary views. The same principle which prompted the Author to write the Book, will ever induce him to improve it to the utmost of his power.

The Author has indeed to regret, that the limits of one volume preclude many interesting observations, and likewise deprive him of the pleasure of inserting a number of very useful remarks made by his learned and ingenious friend, Dr. DUPLANIL, of Paris, who has done him the honor of publishing an elegant translation of this Work, in five volumes octavo, accompanied with an excellent

commentary.

The improvements of the later editions are chiefly inferted in the form of notes. These are intended either to illustrate the text, or to put people on their guard in dangerous situations, and prevent fatal mislakes in the practice of medicine, which it is to be regret-

ted are but too common.

Some attention has likewise been paid to the language. Where that was either inaccurate or obscure, as far as was practicable, it has been corrected. Indeed the Author has all along endeavoured to observe such simplicity and perspicuity in his style as might enable the reader clearly to understand it; a circumstance of the ut-

most importance in a performance of this nature.

Although the DOMESTIC MEDICINE was never intended to supercede the use of a physician, but to supply his place in situations where medical affiltance could not easily be obtained; yet the Author is sorry to observe, that the jealousies and fears of the Faculty have prompted many of them to treat this Work in a manner altogether unorcoming the professors of a liberal science; not withstanding their injurious treatment, he is described to persist in his plan, being fully convinced of its utility; not shall interest or preje like ever deter him from exerting his best endeavours to render the industry after more extensively beneficial to Marking.

But this illiberal treatment of the Faculty is not the only thing of which the Author has cause to complain. By some of them his Book has been served up mangled and mutilated, and its title, type, size, &c. so closely imitated, that purchasers are mislead, and frequently buy these spurious productions instead of the real one.—That a needy Author, incapable himself of producing an original work, should prey upon another, and chat a mercenary bookseller should vend such productions, knowing them to be stolen, are things not at all to be wondered at; but that all this can be done with impunity, shews that the laws of this country respecting literary property, are still in a very imperfect state, and stand much in need of amendment.

London, Dec. 10, 1789.

### PREFACE.

HEN I first signified my intention of publishing the following sheets, I was told by my friends, it would draw on me the resentment of the whole Faculty. As I never could entertain such an unfavourable idea, I was resolved to make the experiment, which indeed came out pretty much as might have been expected. Many whose learning and liberallity of sentiments do honor to medicine, received the book in a manner which at once shewed their indulgence, and the falsity of the opinion, that every physician wishes to conceal his art; while the more selfish and narrow-minded, generally the most numerous in every profession, have not failed to perfecute both the book and its author.

The reception, however, which this work has met with from the public, merits my most grateful acknowledgements. As the best way of expressing these, I have endeavoured to render it more generally useful, by enlarging the prophilaxis, or that part which treats of preventing diseases; and by adding many articles which had been entirely omitted in the former impressions. It is needless to commerce these additions; I shall only say, that I hope they will

be found real improvements.

The observations relative to Nursing and the Management of Children, were chiefly suggested by an extensive practice among infants, in a large branch of the Foundling Hospital, where I had an opportunity not only of treating the diseases incident to child-hood, but likewise of trying different plans of nursing, and observing their effects. Whenever I had it in my power to place the children under the care of proper nurses, to instruct these nurses in their duty, and to be satisfied that they performed it, very sew of them died; but when, from distance of place, and other unavoidable circumstances, the children were lest to the sole care of mercenary nurses, without any person to instruct or superintend them, scarce any of them lived.

This was so apparent, as with me to amount to a proof of the following melancholy saft: That almost one half of the human species periff in infancy, by improper management or neglect. This reflection has made me often wish to be the happy instrument of alleviating the reflecties of those suffering innocents, or of rescuing them from an untimely grave. No one, who has not had an opportunity of observing them, can imagine what absord and ridiculous practices still prevail in the nursing and management of infants, and what not it of lives are by that means lost to society.

As these practices are chiefly owing to ignorance, it is to be hoped, that when nurses are better informed, their conduct will be

more proper.

The application of medicine to the various occupations of life, has been in general the refult of observation, an extensive practice for several years, in one of the largest manufacturing towns in England, afforded me sufficient opportunities of observing the injuries which those useful people sustain from their particular employments, and likewise of trying various methods of obviating such injuries. The success which attended these trials was sufficient to encourage this attempt, which I hope will be of use to those who are under the necessity of earning their bread by such employments as are unfavourable to health.

I do not mean to intimidate men, far less to infinuate that even those arts, the practice of which is attended with some degree of danger, should not be carried on; but to guard the less cautious and unwary against those dangers which they have it in their power to avoid, and which they often, through mere ignorance, incur. As every occupation in life disposes those who follow it, to some particular diseases more than to others, it is certainly of importance to know these, in order that people may be upon their guard against them. It is always better to be warned of the approach of an enemy, than to be surprised by him, especially where there is a possibility of avoiding the danger.

The observations concerning Diet, Air, Exercise, &c. are of a more general nature, and have not escaped the attention of physicians in any age. They are subjects of too great importance, however, to be passed over in an attempt of this kind, and can never be sufficiently recommended. The man who pays a proper attention to these, will seldom need the physician; and he who does not, will seldom enjoy health, let him employ as many physicians

as he pleases.

Though we have endeavoured to point out the causes of diseases, and to put people upon their guard against them, yet it must be acknowledged that they are often of such a nature as to admit of being removed only by the diligence and activity of the public magistrate. We are forry indeed, to observe, that the power of the magistrate is seldom exerted in this country for the preservation of health. The importance of a proper medical police is either not understood, or little regarded. Many things highly injurious to the public lealth are daily practised with impunity, while others, absolutely necessary for its preservation, are entirely neglected.

Some of the public means of preserving health are mentioned in the general prophylaxis, or the inspection of provisions, wi-

dening the streets of great towns, keeping them clean, supplying the inhabitants with wholesome water, &c. but they are passed over in a very cursory manner. A proper attention to these would have swelled this volume to a great size; I have therefore reserved them

for the subject of a suture publication

In the treatment of disease, I have been peculiarly attentive to regimen. The generality of people lay too much stress upon medicine, and trust too little to their own endeavours. It is always in the power of the patient, or of those about him, to do as much towards his recovery as can be effected by the physician. By not attending to this, the designs of medicine are eften frustrated; and the patient, by pursuing a wrong plan of regimen, not only defeats the doctor's endeavours, but renders them dangerous. I have often known patients killed by an error in regimen, when they were using very proper medicines. It will be said, the physician always orders the regimen when he prescribes a medicine. I wish it were so, both for the honor of the Faculty and the safety of their patients; but physicians as well as other people, are too little attentive to this matter.

Though many reckon it doubtful whether physic is more beneficial or hurtful to mankind, yet all allow the necessity and importance of a proper regimen in diseases. Indeed the very appetites of the sick, prove its propriety. No man in his senses ever imagined that a person in a sever, for example, could eat, drink, or conduct himself in the same manner as one in persect health. This part of medicine, therefore, is evidently sounded in nature, and is every way consistent with reason and common sense. Had men been more attentive to it, and less solicitous in hunting after secret remedies, medicine had never become an object of ridicule.

This seems to have been the first idea of medicine. The ancient physicians acted chiefly in the capacity of nurses. They went very little beyond aliment in their prescriptions; and even this they generally administered themselves, attending the sick for that purpose through the whole course of the disease; which gave them an opportunity not only of marking the changes of diseases with great accuracy, but likewise of observing the effects of their dis-

ferent applications and adapting them to the symptoms.

The learned Dr. Arbuthnot afferts, that by a proper attention to those things which are almost within the reach of every body, more good and less mischief will be done in acute diseases, than by medicines improperly and unseasonably admirifered; and that great cures may be effected in chronical distempers, by a proper regimen of the diet only. So entirely do the Doctor's tentiments and mine agree, that I would advise every person, ignorant of physic, to confine his practice solely to diet, and the other parts or

regimen; by which means he may often do much goed, and can

feldom do any hurt.

This seems also to have been the opinion of the ingenious Dr Huxham, who observes, that we often seek from art what allbountiful nature most readily, and as affectually, offers us, had we diligence and fagacity enough to observe and more use of them; that the dietetic part of medicine is not so much flucted as it ought to be; and that, though less pompous, yet it is the most natural method of

curing diseases.

To render the book more generally useful, however, as well as more acceptable to the intelligent part of mankind, I have in most diseases, besides regimen, recommended some of the most simple and approved forms of medicine, and added such cautions and directions as seemed necessary for their safe administration, It would no doubt have been more acceptable to many, had it abounded with pompous prescriptions, and promised great cures in consequence of their use; but this was not my plan, I think the administration of medicines always doubtful, and often dangerous. and would much rather teach men how to avoid the necessity of using them, than how they should be used.

Several medicines, and those of considerable efficacy, may be administered with great freedom and safety. Physicians generally trifle a long time with medicines before they learn their proper use. Many peasants at present know better how to use some of the most important articles in the materia medica, than physicians did a century ago; and doubtless the same observation will hold with regard to others some time hence. Wherever I was convinced that medicine might be used with safety, or where the cure depended chiefly upon it, I have taken care to recommend it; but where it was either highly dangerous, or not very necessary, it is

I have not troubled the reader with an useless parade of quotations from different authors, but have in general adopted their observations where my own were either defective, or totally wanting. These to whom I am most obliged are, Ramazini, Arbettanot, and Tiffot; the last of which, in his Aves au Peuple, comes the nearest to my views of any author which I have seen. Had the Doctor's plan been as complete as the execution is mafferly, we should have had no occasion for any new treatife of this kind foon; but by confining himfelf to the acute difeases, he has in my opinion omitted the most useful part of his subject. People in acuta diseases may sometimes be their own physicians; but in the chronic, the cure must ever depend chiefly upon the patient's own endeavours. The Doctor has also passed over the Prophlyaxi, cr preventive part of medicine, very flightly, though it is certainly of

the greatest importance in such a work. He had no doubt his reasons for so doing, and I am so far from finding sault with him, that I think his performance does great honour both to his head

and to his heart.

Several other foreign physicians of eminence have written on nearly the same plan with Tissot, as the Baron Van Swieten, physician to their imperial Majesties; M. Rosen, first physician of the kingdom of Sweden, &c. but these gendemen's productions have never come to my hand. I cannot help wishing, however, that some of our distinguished countrymen would follow their example. There still remains much to be done on this subject, and it does not appear to me how any man could better employ his time or talents, than in eradicating hurtful prejudices, and disfusing useful knowledge among the people.

I know some of the Faculty disapprove of every attempt of this nature, imagining that it must totally destroy their influence. But this nation appears to me to be as absurd as it is illiberal. People in distress will always apply for relief to men of superior abilities, when they have it in their power; and they will do this with far greater considence and readiness when they believe that medicine is a rational science, than when they take it to be only a matter of

mere conjecture.

Though I have endeavoured to render this Treatife plain and useful, yet I found it impossible to avoid some terms of art; but those are in general either explained, or are such as most people understand. In short I have endeavoured to conform my style to the capacities of mankind in general, and if my readers do not statter either themselves or me, with some degree of success. On a medical subject, this is not so easy a matter as some may imagine. To make a shew of learning is easier than to write plain sense, especially in a science which has been kept at such a distance from common observation. It would however be no dissinct matter to prove, that every thing valuable in the practical part of medicine is within the reach of common abilities.

It would be ungenerous not to express my warmest acknowledgments to these gentlemen who have endeavoured to extend the usefulness of this performance, by translating it into the language of their respective countries. Most of them have not only given elegant translations of the book, but have also enriched it with many useful observations; by which it is rendered more complete, and better adapted to the climate and constitutions of their countrymen. To the learned Dr. Doplanil of Paris, physician to the Count d'Artois, I lie under particular obligations; as this gentlemen has not only considerably charged my Treatife, but by his very inquisious and useful notes, has rendered it so popular on the continent,

as to occasion its being translated into all the languages of modern

Europe.

I have only to add, that the book has not more exceeded my expectations in its fuccess, than in the effects it has produced. Some of the most pernicious practices, with regard to the treatment of the fick, have already given place to a more rational conduct; and many of the most hurtful prejudices, which seemed to be quite infurmountable, have in a great measure yielded to better information. Of this a stronger instance cannot be given than the inoculation of the small pox. Few mothers, some years ago, would submit to have their children inoculated even by the hand of a physician; yet nothing is more certain, than that of late many of them have performed this operation with their own hands; and as their success has been equal to that of the most dignified inoculators, there is little reason to doubt that the practice will become general. Whenever this shall be the case, more lives will be saved by inoculational alone, than are at present by all the endeavours of the Faculty.

### INTRODUCTION.

THE improvements in medicine, fince the revival of learning, have by no means kept pace with those of the other arts.-The reason is obvious. Medicine has been studied by few, except those who intended to live by it as a trade. Such, either from a mistaken zeal for the honor of medicine, or to raise their own importance, have endeavoured to difguife and conceal the art. Medical authors have generally written in a foreign language; and those who were unequal to this task, have even valued themselves upon couching, at least their prescriptions, in terms and characters un-

intelligible to the rest of mankind.

The contentions of the clergy, which happened foon after the restoration of learning, engaged the attention of mankind, and paved the way for that freedom of thought and enquiry, which has fince prevailed in most parts of Europe with regard to religious matters. Every man took a fide in those bloody disputes; and every gentleman, that he might distinguish himself on one side or other, was instructed in Divinity. This taught people to think and reason for themselves in matters of religion, and at last totally destroyed that complete and absolute dominion which the clergy had obtained over the minds of men.

The study of Law has likewife, in most civilized nations, been justly deemed a necessary part of the education of a gentleman. Every gentleman ought certainly to know at least the laws of his own country; and, if he were also acquainted with those of others,

it might be more than barely an ornament to him.

The different branches of Philosophy have also of late been very univerfally studied by all who pretended to a liberal education. The advantages of this are manifest. It frees the mind from prejudice and ful erstition; fits it for the investigation of truth, induces habits of reasoning and judging properly; opens an inexhaustable fource of entertainment; paves the way to the improvement of arts and agriculture; and qualifies men for acting with propriety in the most important stations of life.

Natural History has likewise become an object of general attention; and it well deserves to be so., It leads to discoveries of the greatest importance. Indeed Agriculture, the most useful of all arts, is only a branch of Natural History, and can never arrive at a high degree of improvement where the fludy of that feience is neg-

Medicine however has not, as far as I know, in any country, been reckoned a necessary part of the education of a gentleman.—But surely no sufficient reason can be assigned for this omission. No science lays open a more extensive field of useful knowledge, or assorted more ample entertainment to an inquisitive mind. Anatomy, Botany, Chymistry, and the Materia Medica, are all branches of Natural History, and are fraught with such amusement and utility, that the man who entirely neglects them has but a forry claim either to taste or learning. If a gentleman has a turn for observation, says an excellent and sensible writer\*, surely the natural history of his own species is a more interesting subject, and presents a more ample sie'd for the exertion of genius, than the natural history of spiders and cockle-shells.

We do not mean that every man should become a physician.— This would be an attempt as ridiculous as it is impossible. All we plead for is, that men of sense and learning should be so far acquainted with the general principles of Medicine, as to be in a condition to derive from it some of those advantages with which it is fraught; and at the same time to guard themselves against the destructive influences of Ignorance, Superstition, and Quackery.

As matters stand at present, it is easier to cheat a man out of his life than of a shilling, and almost impossible either to detect or punish the offender. Notwithstanding this, people still shut their eyes, and take every thing upon trust that is administered by any pretender to medicine, without daring to ask him a reason for any part of his conduct. I uplicit faith, every where else the object of ridicule, is still facred here. Many of the Faculty are no doubt worthy of all the considence that can be reposed in them; but as this can never be the character of every individual in any profession, it would certainly be for the safety, as well as the honour of mankind, to have some check upon the conduct of those to whom they entrust so valuable a treasure as health.

The veil of mystery, which still hangs over medicine, renders it not only a conjectural, but even a suspicious art. This has been long ago removed from the other sciences, which induces many to believe, that medicine is a mere trick, and that it will not bear a fair and candid examination. Medicine, however, needs only to be better known, in order to secure the general esteem of markind. In precepts are such as every wise man would choose to observe, and it forbids nothing but what is incompatible with true happiness.

Disguising medicine, not only retards its improvement as a seicace, but exposes the profession to ridicule, and is injurious to the

<sup>\*</sup> Olfervations on the Daties and Offices of a Physician.

true interests of society. An art founded on observation can never arrive at any high degree of improvement, while it is confined to a few who make a trade of it. The united observations of all the ingenious and sensible part of mankind, would do more in a few years towards the improvement of Medicine, than those of the faculty alone in a great many. Any man can tell when a medicine gives him ease as well as a physician; and if he only knows the name and the dose of medicine, and the name of the disease, it is sufficient to perpetuate the sact. Yet the man who adds one single sact to the stock of medical observations, does more real service to the art, than he who writes a volume in support of some favourable hypothesis.

Very few of the valuable differences in medicine have been made by physicians. They have in general either been the effect of chance, or of necessity, and have been usually opposed by the faculty, till every one else was convinced of their importance. An implicit faith in the opinions of teachers, an attachment to systems and established forms, and the dread of reflections, will always opetate upon those who follow medicine as a trade. Few improvements are to be expected from a man who might ruin his character and family by even the smallest deviation from an established rule.

If me i of letters, fays the author of the performance quoted above, were to claim their right of enquiry into a matter that fo searly concerns them, the good effects of medicine would foon appear. Such men would have no feparate interest from that of the art. They would detect and expose assuming ignorance under the mask of Gravity and Importance, and would be the judges and patrons of modest merit. Not having their understandings perverted in their youth by false theories, unawed by authority, and inbiassed by interest, they would canvass with freedom the most universally received principles of medicine, and expose the uncertainty of many of those doctrines, of which a physician dares not so much as seem to doubt.

No argument, continues he, can be brought against laying open I Indicine, which does not apply with equal, if not greater force, to religion, yet experience has shewn, that since the laity has afferted their right of enquiry into these subjects. Theology, considered as a science, has been improved, the interests of real religion have been promoted, and the clergy have become a more learned, a more useful, and a more respectable body of men, than they ever

were in the days of their greatest power and splender.

Had o'her medical writers been as honest as this gentleman, the art had been upon a very different footing at this day. Most of these extent the merit of those men who brought Philosophy out of

the schools, and subjected it to the rules of common sense. But they never consider that Medicine, at present, is in nearly the same situation as Philosophy was at that time, and that it might be as much improved by being treated in the same manner. Indeed, no science can either be rendered rational or useful, without being submitted to the common sense and reason of mankind. These alone stamp a value upon science: and what will not bear the test of these,

ought to be rejected.

I know it will be faid, that diffusing medical knowledge among the people might induce them to tamper with medicine, and to trust to their own skill instead of calling a physician. The reverse of this however is true. Persons who have most knowledge in these matters, are commonly most ready both to ask and to follow advice, when it is necessary. The ignorant are always most apt to tamper with medicine, and have the least considence in physicians. Instances of this are daily to be met with among the ignorant peasants, who, while they absolutely result to take a medicine which has been prescribed by a physician, will swallow with greediness any thing that is recommended to them by their credulous neighbours. Where men will act even without knowledge, it is certainly more rational to effort them all the light we can, than to leave them entirely in the dark.

It may also be alledged, that laying medicine more open to mankind would lessen their faith in it. This would indeed be the case with regard to some; but it would have a quite contrary essentially others. I know many propile who have the utmost dread and for ror of every thing prescribed by a physician, but who will nevertheless very readily take a medicine which they know, and whose qualities they are in some measure acquainted with. Hence it is evident, that the dread arises from the spectra, not from the drug. Nothing ever can or will inspire markind with an absolute confidence in physicians, but an open, frank, and un listuised behaviour. While the least shadow of mystery remains in the conduct of the Faculty, doubts, scalousies, and suspicious, will arise in the minds

of men.

No doubt, cases will sometimes occur, where a prudent physician may find it expedient to discuise a medicine. The whims and humors of men must be regarded by those who mean to do them furvice; but this can never affect the general area ment in favour of can lour and openness. A man might as well alledge, because there are knows and sools in the world, that he ought to take every one he meets for such, and to treat him accordingly. A sensible plysician wall always know where disguise is negative; but it ought never to appear on the face of his general conduct.

The appearance of mystery in the conduct of physicians not only renders their art suspicious, but lays the soundation of Quackery, which is the disgrace of medicine. No two characters can be more different than that of the honest physician and the quack; yet they have generally been very much consounded. The line between them is not sufficiently apparent; at least it is too sine for the general eye. Few parsons are able to distinguish sufficiently and him who writes a prescription in mystical characters and an unknown tongue. Thus the conduct of the honest physician, which needs no disguise, gives a function to that of the villain, whose sole consequence depends on secrecy.

No laws will ever be able to prevent quackery, while people believe that the quack is as honeft a man, and as well qualified, as the physician. A finall degree of medical knowledge, however, would be sufficient to break this spell: and nothing else can effectually undeceive them. It is the ignorance and credulity of the multitude, with regard to medicine, which renders them such an easy prey to every one who has the hardiness to attack them on this quarter. Nor can the evil be remedied by any other means but by

making them wifer.

The mest effectual way to destroy quackery in any art or science, is to distince the knowledge of it among mankind. Did physicians, write their prescriptions in the common language of the country, a dexplain their intentions to the patient, as far as he could undermand them, it would enable him to know when the medicine had the other effect; would inspire him with absolute confidence in the physician; and would make him dread and detest every man

who pretended to cram a feeret medicine down his throat.

Men in the different states of society, have very different views of the same object. Some time ago it was the practice of this country for every person to say his prayers in Latin, whether he knew any thing of that language or not. This conduct, though secred in the eyes of our ancestors, appears ridiculous enough to us; and doubtless some parts of ours will seem as strange to posterity. Among these we may reckon the present mode of medical prescriptions, which, we venture to affirm, will sometime hence process to have been completely ridiculous, and a very high burnique poin the common set se of mankind.

But this practice is not only ridiculous, it is likewise dangerous. However capable physicians may be of writing Latin, I am certain a pothecaries are not always in a condition to read it, and that dangerous mistakes in configuence of this, often happen. But support the apathecary over so this to read the physician's prescription,

he is generally otherwise employed, and the business of making up prescriptions is left entirely to the apprentice. By this means the greatest man in the kingdom, even when he employs a first rate physician, in reality trusts his life in the hands of an idle boy, who has not only the chance of being ignorant, but likewise giddy and careless. Mistakes will sometimes happen in spite of the greatest care; but, where human lives are concerned, all possible methods ought certainly to be taken to prevent them. For this reason, the prescriptions of physicians, instead of being couched in mystical characters and a dead language, ought in my humble opinion, to be conceived in the most plain and obvious terms imaginable.

Diffusing medical knowledge among the people would not only tend to improve the art, and to banish quackery, but likewise to render medicine more universally useful, by extending benefits to society. However long medicine may have been known as a science, we will venture to fay, that many of its most important purposes to society have either been overlooked, or very little attended to. The cure of diseases is doubtless a matter of great importance, but the preservation of health is still greater. This is the concern of every man, and surely what relates to it ought to be rendered as plain and obvious to all as possible. It is not to be supposed, that men can be sufficiently upon their guard against diseases, who are totally ignorant of their causes. Neither can the legislature, in whose power it is to do much more for preserving the public health than can ever be done.by the Faculty, exert that power with propriety, and to the greatest advantage, without some degree of medical knowledge.

Men of every occupation and condition in life might avail themfelves of a degree of medical knowledge; as it would teach them to avoid the dangers peculiar to their respective stations; which is always easier than to remove their effects. Medical knowledge, instead of being a check upon the enjoyments of life, only teaches men how to make the most of them. It has indeed been said, that to live medically is to live miserably: but it might with equal propriety be said, that to live rationally is to live miserably. If physicians obtrude their own ridiculous whims upon mankind, or lay down rules inconsistent with reason or common sense, no doubt they will be despised. But this is not the fault of medicine. It produces no rules that I know, but such as are perfectly consistent with the true enjoyment of life, and every way conducive to the

real happiness of mankind.

We are forry indeed to observe, that medicine has hitherto hardly been considered as a popular science, but as a branch of know-ledge solely consined to a particular set of men, while all the rest have been taught not only to neglect, but even to dread and despise it. It will however appear, upon a more strict examination, that no science better deserves their attention, or is more capable of

being rendered generally useful.

People are told, that if they dip the least into medical knowledge, it will render them fanciful, and make them believe they have every disease of which they read. This I am satisfied will seldom be the case with sensible people; and suppose it were, they must soon be undeceived. A short time will shew them their error, and a little more reading will infallably correct it. A single instance will shew the absurdity of this notion. A sensible lady, rather than read a medical performance, which would instruct her in the management of her children, generally leaves them entirely to the care and conduct of the most ignorant, credulous and superstitious

part of the human species.

No part of medicine is of more general importance than that which relates to the nursing and management of children. Yet few parents pay a proper attention to it. They leave the sole care of their tender off pring, at the very time when care and attention we most necessary, to hirelings, who are either too careless to do it duty, or too ignorant to know it. We will venture to affirm, but more human lives are lost by the carelessness and inattention of purents and nurses, than are saved by the Faculty; and that the joint and well-conducted endeavours, both of private persons and the public, for the preservation of infant lives, would be of more advantage to society, than the whole art of medicine, upon its pre-

fent footing.

The benefits of medicine, as a trade, will ever he confined to those who are able to pay for them, and of course the far greater part of mankind will be every where deprived of them. Physicians, like other people, must live by their employment, and the poor must either want advice altogether, or take up with that which a worse than none. There are not however any where wanting ell disposed people, of better sense, who are willing to such the defect of medical advice to the poor, did not their sear of dingill, often suppress their inclination to do good. Such people or often deterred from the most noble and praiseworthy actions, by the solish alarms sounded in their cars, by a set of men who to raise their own importance, magnify the difficulties of doing good, and find roult with what is truly commendable, fleer at every attempt to relieve the sick which is not conducted by the precise tules of medicine. These gentlemen must excuse me for saying,

the is generally otherwise employed, and the business of Le and up prescriptions is lest entirely to the apprentice. By this means the greatest man in the kingdom, even when he employs a first rate physician, in reality trusts his life in the hands of an idle boy, who has not only the chance of being ignorant, but likewise giddy and careless. Mistakes will sometimes happen in spite of the greatest care; but, where human lives are concerned, all possible methods ought certainly to be taken to prevent them. For this reason, the prescriptions of physicians, instead of being couched in mystical characters and a dead language, ought in my humble opinion, to be conceived in the most plain and obvious terms ima-

ginable.

Diffusing medical knowledge among the people would not only tend to improve the art, and to banish quackery, but likewise to render medicine more universally useful, by extending benefits to society. However long medicine may have been known as a science, we will venture to fay, that many of its most important purposes to society have either been overlooked, or very little attended to. The cure of diseases is doubtless a matter of great importance, but the preservation of health is still greater. This is the concern of every man, and furely what relates to it ought to be rendered as plain and obvious to all as possible. It is not to be supposed, that men can be sufficiently upon their guard against diseases, who are totally ignorant of their causes. Neither can the legislature, in whose power it is to do much more for preserving the public health than can ever be done by the Faculty, exert that power with propriety, and to the greatest advantage, without some degree of medical knowledge.

Men of every occupation and condition in life might avail themfelves of a degree of medical knowledge; as it would teach them to avoid the dangers peculiar to their respective stations; which is always easier than to remove their effects. Medicel knowledge, instead of being a check upon the enjoyments of life, only teaches men how to make the most of them. It has indeed been said, that to live medically is to live miserably: but it might with equal propriety be said, that to live rationally is to live miserably. If physicians obtrude their own ridiculous whims upon mankind, or lay down rules inconsistent with reason or common sense, no doubt they will be despised. But this is not the fault of medicine. It produces no rules that I know, but such as are perfectly consistent with the true enjoyment of life, and every way conducive to the

real happiness of mankind.

long practice in different parts of this island, during which the author has often had occasion to wish that his patients, or those about them, had been possessed of some such plain directory for regulating their conduct. How far he has succeeded in his endeavours to supply this deficiency, must be left for others to determine; but if they be found to contribute in any measure towards alleviating the calamities of mankind, he will think his labour very well bestowed.

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## PART I.

#### OFTHE

### GENERAL CAUSES OF DISEASES.

#### C H A P. I.

#### OF CHILDREN.

THE better to trace diseases from their original causes, we shall take a view of the common treatment of mankind in the state of infancy. In this period of our lives, the foundations of a good or bad constitution are generally laid; it is therefore of importance, that parents be well acquainted with the various causes which may injure the health of their offspring.

It appears from the annual registers of the dead, that almost half of the children born in Great Britain die under twelve years of age. To many, indeed, this may appear a natural evil; but on due examination, it will be found to be one of our own creating. Were the death of infants a natural evil, other animals would be as liable to die young as man; but this we find is by no means the case.

It may feem strange that man, notwithstanding his superior reafon, should fall so far short of other animals in the management of his young: But our surprise will soon cease if we consider that brutes, guided by instinct, never err in this respect; while man trusting solely to art, is seldom right. Were a catalogue of those infants who perish annually by art alone exhibited to public view, it would associate that

If parents are above taking care of their children, others must be employed for that purpose: these will always endeavour to recommend themselves by the appearances of extraordinary skill and address. By this means such a number of unnecessary and destructive articles have been introduced into the diet, clothing, &c. of

infants, that it is no wonder so many of them perish.

Nothing can be more preposterous than a mother who thinks it below her to take care of her own child, or who is so ignorant as not to know what is proper to be done for it. It we search Nature throughout, we cannot find a parallel to this. Every other animal is the nurse of its own offspring, and they thrive according-

11

ly. Were the brutes to bring up their young by proxy, they would

there the same fate with those of the human species.

We me n not, however, to impose it as a task upon every mother to suckle her own child. This, whatever speculative writers may alledge, it in some cases impracticable, and would inevitably prove detractive both to the mother and child. Women of delicate constitutions, subject to hyderic fits, or other nervous affections, make very bad nurses: And these complaints are now so common, that it is rare to said a woman of fashion free from them; such women, therefore, supposing them willing, are often unable to suckle their own children.

Almost every mether would be in a condition to give suck, did mankind live agreeably to Nature; but wheever confiders how far many mothers deviate from her didates, will not be surprised to find some of them unable to perform that necessary office. Mothers who do not ent a sessiolent quantity of solid food, nor enjoy the benefit of free air and exercise, can neither have wholesome juices themselves, nor afford proper nonrishment to an infant. Hence children who are suckled by delicate women, either die young, or

continue weak and fickly all their lives.

When we fay that mothers are not always in a condition to fuckle their own children, we would not be understood as discouraging that practice. Every mother who can, ought certainly to perform to tender and agreeable an office\*. But suppose it to be out of her power, she may, nevertheless, be of great service to her child. The bushless of nursing is by no means contined to giving suck.—To a woman who abounds with milk, this is the easiest part of it. Numberless other offices are necessary for a child, which the mother ought at least to see done.

A mother who abandons the fruit of her womb, as foon as it is born, to the fole care of an hireling, hardly deferves that name. A child by being brought up under the mother's eye, not only fecures

<sup>\*</sup> Many advantages would arife to society, as well as to individuals, from mothers suckling their own children. It would provent the temptation which poor women are under of abandoning their children to suckle these of the rich for the sake of gain: by which means society loses many of its most us ful members, and mothers become in some sense the murderers of their own officering. I am sure I speak within the truth when I say, that not one in twenty of these children live, who are thus abandoned by their most ers. For this reason no mother should be allowed to suckle another's child, till her own is either dead, or sit to be weaned. A regulation of this kind would save many lines among the poorer sert, and could do no hurt to the rich, as most women who make good nurses are able to suckle two children in succession upon the same mick.

her affection, but may reap all the advantages of a parent's care,

though it be fuckled by another.

How can a mother be better employed than in superintending the nursery? This is at once the most delightful and important office; yet the most trivial business or insipid amusements are often preferred to it! A strong proof both of the bad taste and wrong education of modern females.

It is indeed to be regretted, that more care is not bestowed in teaching the proper management of children to these whom nature has designed for mothers. This, instead of being made the principal, is seldern considered as any part of semale education. Is it any wonder, when semales so educated come to be mothers, that they should be quite ignorant of the duties belonging to that character? However strange it may appear it is certainly true, that many mothers, and these of sashion too, are as ignorant, when they have brought a child into the world, of what is to be done for it, as the infant itself. Indeed, the most ignorant of the sex are generally reck ned most knowing in the business of nursing. Hence, sensible people become the dupes of ignorance and superstition; and the uniting of children, instead of being conducted by reason, is the resolut of whim and caprice.

Were the time that is generally from by females in the acquisition of trifling accomplishments, employed in learning how to bring up their children; how to dress them so as not to hurt, cramp, or confine their motions; how to feed them with whole-fome and nourishing food; how to exercise their tender bodies, so as best to promote their growth and strength: Were these made the objects of semale instruction, manking would derive the greatest advantages from it. But while the education of semales implies little more than what relates to dress and public thew, we have nothing to expect from them but ignerance even in the most important

concerns.

Did mothers reflect on their own importance, and lay it to heart, they would embrace every opportunity of informing themselves of the duties which they owe to their infant offspring. It is their province, not only to form the body, but also to give the mind its most

<sup>\*</sup> Tacitus, the celebrated Roman historian, complains greatly of the degeneracy of the Roman ladies in his time, with fegard to the care of their offspring. He says, that in former times, the greatest women in Rome used to account it their chief glory to keep the house and attend their children; but that now the young infant was committed to the sole care of some poor Grecian wonch, or other menial servant.—We are afraid, wherever luxury and effeminacy prevail, there will be too much ground for this complaint.

early bias. They have it very much in their power to make men healthy or valetudinary, useful in life, or the pests of society.

But the mother is not the only person concerned in the management of her children. The father has an equal interest in their welfare, and ought to affist in every thing that respects either the

improvement of the body or mind.

It is pity that the men thould be so inattentive to this matter.—
Their negligence is one reason why semales know so little of it.
Women will ever be desirous to excel in such accomplishments as recommend them to the other sex. But men generally keep at such a distance from even the smallest acquaintance with the affairs of the nursery, that many would esteem it an affront, were they supposed to know any thing of them. Not so, however, with the kennel or stables: A gentleman of the first rank is not ashamed to give directions concerning the management of his dogs or horses, yet would blush were he surprised in performing the same office for that being who derived its existence from himselt, who is the heir of his fortunes, and the future hope of his country.

Nor have physicians themselves been sufficiently attentive to the management of children: This has been generally considered as the sole province of old women, while men of the first character in physic have resulted to visit infants even when sick. Such conduct in the faculty has not only caused this branch of medicine to be neglected, but has also encouraged the other sex to assume an absolute title to prescribe for children in the most dangerous diseases. The consequence is, that a physician is seldom called till the good women have exhausted all their skill; when his attendance can only serve to divide the blame and appease the disconsolate parents.

Nurses should do all in their power to prevent diseases; but when a child is taken ill, some person of skill ought immediately to be consulted. The diseases of children are generally acute, and the

least delay is dangerous.

Were physicians more attentive to the diseases of infants, they would not only be better qualified to treat them properly, when sick, but likewise to give useful directions for their management when well. The diseases of children are by no means so difficult to be understood as many imagine. It is true, children cannot tell their complaints; but the causes of them may be pretty certainly discovered by observing the symptoms, and putting proper questions to the nurses. Besides, the diseases of infants, being less complicated, are easier cured than those of adults\*.

<sup>\*</sup>The common opinion, that the diseases of infants are hard to discover, and dissibility to cure, has deterred many physicians from paying that attention to them which they deserve. I can, however, from experience

It is really aftonishing, that so little attention should in general be paid to the preservation of infants. What labour and expense are daily bestowed to prop an old tottering carcase for a few years, while thousands of those who might be useful in life, perish without being regarded! Mankind are too apt to value things according to their present, not their future usefulness. Though this is of all others the most erroneous method of estimation, yet upon no other principle is it possible to account for the general indifference with respect to the death of infants.

Of Discased Parents.

One great fource of the difeafes of children is, the UNHEALTH-INESS OF PARENTS. It would be as reasonable to expect a rich crop from a barren soil, as that strong and healthy children should be bern of parents whose constitutions have been worn out

with intemperance or disease.

An ingenious writer\* observes, that on the constitution of mothers depends originally that of their offspring. No one who believes this will be surprised, on a view of the semale world, to find diseases and death so frequent among children. A delicate semale, brought up within doors, an utter stranger to exercise and open air, who lives on tea and other slops, may bring a child into the world, but it will hardly be sit to live. The first biast of disease will nip the tender plant in the bud: or, should it struggle through a few years existence, its feeble frame, shaken with convulsions from every trivial cause, will be unable to perform the common functions of life, and prove a burden to society.

If to the delicacy of mothers, we add the irregular lives of fathers, we shall see further cause to believe that children are often

hurt by the constitutions of their parents.

A fickly frame may be originally induced by hardships or intemperance, but chiefly by the latter. It is impossible that a course of vice should not spoil the best constitutions: And did the evil terminate here, it would be a just punishment for the folly of the sufferer; but, when once a disease is contracted and riveted in the habit, it is entailed on posterity. What a dreadful inheritance is the gout, the scurvy, or the king's evil, to transsmit to our offspring! How happy had it been for the heir of many a great estate, had he been born a beggar, rather than to inherit his father's fortune at the expence of inheriting his diseases!

A person labouring under any incurable malady ought not to marry. He thereby not only shortens his own life, but transmits

declare, that this opinion is without foundation; and that the diseases of infants are neither so difficult to discover, nor so ill to cure, as the stadults.

\* Rouseau.

misery to others: But, when both parties are deeply tainted with the scrophula, the scurvy, or the like, the effects must be still worse. If such have any issue, they must be miserable indeed.—Want of attention to these things, in forming connections for life, has rooted out more families than plague, samine, or the sword; and as long as these connections are formed for mercenary views,

the evil will be continued?.

In our matrimonial contracts, it is amazing so little regard is had to the health and form of the object. Our sportsmen know, that the generous courser cannot be bred out of the soundered jade, nor the sagacious spannel out of the snarling cur. This is settled upon immutable laws. The man who marries a woman of a sickly constitution, and descended of unhealthy parents, whatever his views may be, cannot be said to act a prudent part. A diseased woman may prove fertile; should this be the case, the samily must become an infirmary: what prospect of happiness the sather of such a samily has, we first leave any one to judges.

Such children as have the misfortune to be born of difeased parents, will require to be nursed with greater care than others. This is the only way to make amends for the defects of constitution; and it will often go a great length. A healthy nurse, wholesome air, and sufficient exercise, will do wonders. But when these are neglected, little is to be expected from any other quarter. The de-

fects of conditution cannot be supplied by medicine.

Those who inherit any family disease ought to be very circumfpect in their manner of living. They should consider well the nature of such disease, and guard against it by a proper regimen. It is certain, that family diseases have often, by proper care, been kept off for one generation; and there is reason to believe, that, by persisting in the same course, such diseases might at length be wholly eradicated. This is a subject very little regarded, though of the greatest importance. Family constitutions are as capable of improvement as family estates; and the libertine, who impairs the

\* The Laced monians condemned their king Archidamus for having verried a weak puny woman; because, said they, instead of propagating a ruse of heroes, you will fill the throne with a progeny of changelings.

<sup>§</sup> The Jews, by their laws, were, in certain cases, forbid to have any manner of commerce with the diseased; and indeed to this all wise legislators ought to have a special regard. In some countries, diseased persons have actually been forbid to marry. This is an evil of a complicated kind, a natural deformity, and political mischief; and therefore requires a public consideration.

one, does greater injury to his posterity, than the prodigal who favanders away the other.

Of the Clothing of Children.

The clothing of an infant is so simple a matter, that it is surprising how any person should err in it; yet many children lose their lives, and others are deformed, by inattention to this article.

Nature knows no use of clothes to an infant, but to keep it warm. All that is necessary for this purpose, is to wrap it in a soft loose covering. Were a mother left to the distates of Nature alone, the would certainly pursue this course. But the business of dressing an infant has long been out of the hands of mothers, and has at last become a secret which none but adepts pretend to understand.

From the most early ages it has been thought necessary, that a woman in labour should have some person to attend her. time became a business; and, as in all others, those who were employed in it strove to outdo one another in the different branches of their profession. The dressing of a child came of course to be confidered as the midwife's province, who no doubt imagined, that the more dexterity she could-shew in this article, the more her skill would be admired. Her attempts were seconded by the vanity of parents, who, too often defirous of making a shew of the infant as foon as it is born, were ambitious to have as much finery heaped upon it as possible. Thus it came to be thought as necessary for a midwife to excel in bracing and dreffing an infant, as for a furgeon to be expert in applying bandages to a broken limb; and the poor child, as foon as it came into the world, had as many rollers and wrappers applied to its body, as if every bone had been fractured in the birth; while these were often so tight, as not only to gall and wound its tender frame, but even to obstruct the motion of the heart, lungs, and other organs necessary for life.

In most parts of Britain, the practice of rolling children with so many bandages is now, in some measure, laid aside; but it would still be a difficult task to persuade the generality of mankind, that the shape of an infant does not entirely depend on the care of the midwife. So far, however, are all her endeavours to mend the shape from being successful, that they constantly operate the contrary way, and mankind become deformed in proportion to the means used to prevent it. How little deformity of body is to be found among uncivilized nations? So little indeed, that it is vulgarly believed they put all their deformed children to death, truth is they hardly know such a thing as a deformed child. ther should we, if we followed their example. Savage nations never think of manacling their children. They allow them the full use of every organ, carry them abroad in the open air, wash their bodies daily in cold water, &c. By this management, their children become fo strong and hardy, that, by the time our puny infauts get out of the nurse's arms, theirs are able to shift for them-felves\*.

Among brute animals, no art is necessary to procure a fine shape. Though many of them are extremely delicate when they come into the world, yet we never find them grow crooked for want of swaddling bands. Is Nature less generous to the human kind? No: but we take the business out of Nature's hands.

Not only the analogy of other animals, but the very feelings of infants tell us, they ought to be kept easy and free from all pressure. They cannot indeed tell their complaints; but they can shew signs of pain; and this they never fail to do, by crying when hurt by their clothes. No sooner are they seed from their bracings, than they seem pleased and happy; yet, strange infatuation! the moment they hold their peace, they are again committed to their chains.

If we consider the body of an infant as a bundle of soft pipes, replenished with sluids in continual motion, the danger of pressure will appear in the strongest light. Nature, in order to make way for the growth of children, has formed their bodies soft and slexible: and lest they should receive any injury from pressure in the womb, has surrounded the fetus every where with sluids. This shews the care which nature takes to prevent all unequal pressure on the bodies of infants, and to defend them against every thing that might in the least cramp or consine their motions.

Even the bones of an infant are so soft and cartilaginous, that they readily yield to the slightest pressure, and easily assume a bad shape, which can never after be remedied. Hence it is, that so many people appear with high shoulders, crooked spines, and slat breasts, who were as well proportioned at their birth as others, but had the missfortune to be squeezed out of shape by the application of stays

and bandages.

Preflure, by obstructing the circulation, likewise prevents the equal distribution of nourishment to the different parts of the body, by which means the growth becomes unequal. One part grows too large, while another remains too small; and thus in time the whole frame becomes disproportioned and misshapen. To this we must add, that when a child is cramped in its clothes, it naturally shrinks from the part that is hurt; and, by putting its body into unnatural postures, it becomes deformed by habit.

<sup>\*</sup> A friend of mine, who was several years on the coast of Africa, tells me, that the natives neither put any clothes upon their children, nor apply to their bodies bandages of any hind, but lay them on a pallet, and suffer them to tumble about at pressure; yet they are all strait, and seldem have any discope.

Deformity of body may indeed proceed from weakness or disease; but, in general, it is the effect of improper clothing. Nine tenths at least, of the deformity among mankind, must be imputed to this cause. A deformed body is not only disagreeable to the eye, but by a bad figure both the animal and vital functions must be impeded, and of course health impaired. Hence sew people remarkably mis-

shapen are strong or healthy.

The new motions which commence at the birth, as the circulation of the whole mass of blood through the lungs, respiration, the peristaltic motion, &c. afford another strong argument for keeping the body of an infant free from all pressure. These organs, not having been accustomed to move, are easily stopped; but when this happens, death must ensue. Hardly any method could be devised more effectually to stop these motions, than bracing the body too tight with rollers\* and bandages. Were these to be applied in the same manner to the body of an adult for an equal length of time, they would hardly sail to hurt the digestion and make him sick. How much more hurtful they must prove to the tender bedies of infants, we shall leave any one to judge.

Whoever confiders these things will not be surprised, that so many children die of convulsions soon after the birth. These sits are generally attributed to some inward cause; but in fact, they oftener proceed from our own imprudent conduct. I have known a child seized with convulsion sits soon after the midwise had done swaddling it, who, upon taking off the rollers and bandages, was immediately relieved, and never had the disease afterwards. Numerous

examples of this might be given, were they necessary.

It would be fafer to fasten the clothes of an infant with strings than pins, as these often gall and irritate their tender skins, and occasion disorders. Pins have been found sticking above half an inch into the body of a child, after it had died of convulsion sits, which

in all probability proceeded from that cause.

Children are not only hurt by the tightness of their clothes, but also by the quantity. Every child has some degree of sever after the birth; and if it be loaded with too many clothes, the sever must be increased. But this is not all; the child is generally laid in bed with the mother, who is often likewise severish; to which we may add the heat of the bed-chamber, the wines, and other heating things, too frequently given to children after the birth. When ail these are combined, which does not seldom happen, they must in-

<sup>\*</sup> This is by no means inveighing against a thing that does not happen. In many parts of Britain this day, a roller, eight or ten feet in langth, it applies tightly round the child's body as soon as it is born.

crease the fever to luch a degree as will endanger the life of the in-

The danger of keeping infants too hot will further appear, if we confider that, after they have been for fome time in the fituation mentioned above, they are often fent into the country to be nurfed in a cold house. Is it any wonder, if a child, from such a transition, catches a mortal cold, or contracts fome other fatal difease? When an infant is kept too hot, its lungs not being fusficiently expanded, are apt to remain weak and flaccid for life; hence proceed coughs, confumptions, and other difeafes of the breaft.

It would answer little purpose to specify the particular species of dress proper for an infant. These will always vary in different countries, according to cultom and the humour of parents. The great rule to be of served is, That a child have no more clothes than are necessary to keep it warm, and that they be quite easy for its body.

Stays are the very bane of infants. A volume would not fuffice to point out all the bad effects of this ridiculous piece of drefs both on children and adults. The madness in favour of stays seems, however, to be somewhat abated; and it is to be hoped the world will, in time, become wife enough to know, that the human shape does

not wholly depend upon whale-bone and bend-leather\*.

I thall only add with respect to the clothes of children, that they ought to be kept thoroughly clean. Children perspire more than adults; and if their clothes be not frequently changed, they become very hurtful. Dirty clothes not only gall and fret the tender fkins of infants, but likewife occasion ill smells; and, what is worse,

tend to produce vermin and cutaneous diseases.

Cleanliness is not only agreeable to the eye, but tends greatly to preserve the health of children. It promotes perspiration, and, by that means, frees the body from superfluous humours, which, if retained, could not fail to occasion diseases. No mother or nurse can have any excuse for allowing a child to be dirty. Poverty may oblige her to give it coarse clothes; but if she does not keep them clean, it must be her own fault.

\* Stays made of bend-leather are worn by all the women of lower

Station in many parts of England.

I am forry to understand, that there are still mothers mad enough to ice their daughters very tight in order to improve their shape. As reafacing would be totally loft upon Such people, I shall beg leave just to ask them, Why there are ten deformed women for one man? and likewife to resommend to their perusal a short moral precept, which forbids us to deform the human body.

Of the Food of Children.

Nature not only points out the food proper for an infant but actually prepares it. This, however, is not sufficient to prevent some who think themselves wifer than Nature, from attempting to bring up their children without her provision. Nothing can shew the disposition which mankind have to depart from Nature, more than their endeavouring to bring up children without the breast. The mother's milk, or that of a healthy nurse, is unquestionably the best food for an infant. Neither art nor tuature can afford a proper substitute for it. Children may seem to thrive for a few months without the breast; but, when teething, the small pox, and other diseases incident to childhood, come on, they generally perish.

A child, foon after the birth, shews an inclination to suck; and there is no reason why it should not be gratified. It is true, the mother's milk does not always come immediately after the birth; but this is the way to bring it: besides, the first milk that the child can squeeze out of the breast answers the purpose of cleansing, better than all the drugs in the apothecary's shop, and at the same time prevents instantaions of the breast, severs, and other diseases inci-

dent to mothers.

It is strange how people came to think that the first thing given to a child should be drugs. This is beginning with medicine by times, an no wonder if they generally ended with it. It fometimes happens, indeed, that's child does not discharge the meconium so foon as could be wished; this has induced physicians, in such cases, to give fomething of an opening nature to cleanse the first passages. Midwives have approved upon this hint, and never fail to give fyrups, oils, &c. whether they be necessary or not, cramming an infant with fuch indigestible stuff as soon as it is born, can hardly fait to make it fick, and is more likely to occasion diseases than to prevent them. Children are feldom long after the birth without having paffage both by stool and urine; though these evacuations may be wanting for some time without any danger. But if children must have fometimes before they be allowed the breast, let it be a little thin water-pap, to which may be added an equal quantity of new milk; or rather water alone, with the addition of a little raw fugar. If this be given without any wines or spiceries, it will neither heat the blood, load the stomach, nor occasion gripes.

Upon the first sight of an infant, almost every person is struck with the idea of its being weak, feeble, and wanting support. This naturally suggests the need of cordials. Accordingly wines are universally mixed with the first food of children. Nothing can be more fallacious than this way of reasoning, or more hurtful to infants than the conduct sounded upon it. Children require very little sood

for some time after the birth; and what they receive should be thin, weak, light, and of a cooling quality. A very small quantity of wine is sufficient to heat and inflame the blood of an infant; but every person conversant in these matters must know, that most of the diseases of infants proceed from the heat of their humours.

It the mother or nurse has enough of milk, the child will need little or no other food before the third or fourth month. It will then be proper to give it, once or twice a day, a little of some food that is easy of digestion, as water-pap, milk-pottege, weak broth with bread in it, and such like. This will ease the mother, will accustom the child by degrees to take food, and will render the weaning both less difficult and less dangerous. All great and sudden transitions are to be avoided in nursing. For this purpose, the food of children ought not only to be simple, but to resemble, as nearly as possible, the properties of milk. Indeed milk itself should make a principal part of their food, not only before they are wean-

ed, but for some time after.

Next to milk, we would recommend good light bread. Bread may be given to a child as foon as it shews an inclination to chew; and it may at all times be allowed as much plain bread as it will eat. The very chewing of bread will promote the cutting of the teeth, and the discharge of faliva, while, by mixing with the nurse's milk in the stomach, it will afford an excellent nourishment. Children discover an early inclination to chew whatever is put into their hands. Parents observe the inclination, but generally miltake the bject. Instead of giving the child something which may at once exercise its gams and afford it nourishment, they commonly put into its hands a piece of hard metal, or impenetrable coral. A crust of bread is the best gam-stick. It not only answers the purpose better than any thing else, but has the additional properties of nourishing the child and carrying the saliva down to the stomach, which is too valuable a liquor to be lost.

Bread, besides being used dry, may be many ways prepared into sood for children. One of the best methods is to boil it in water, afterwards pouring the water off, and mixing with the bread a proper quantity of new milk unboiled. Milk is both more wholesome and neurishing this way than boiled, and is less apt to eccasion costiveness. For a child farther advanced, bread may be mixed in yeal or chicken broth, made into puddings, or the like. Bread is a proper food for children at all times, provided it be plain, made of wholesome grain, and well fermented; but when enriched with sruits, sugars, or such things, it becomes very unwholesome.

It is foon enough to allow children animal food when they have got teeth to eat it. They should never taste it till after they are reaned, and even then they ought to use it spaningly. Indeed,

when children live wholly on vegetable food, it is apt to four on their ftomach; but, on the other hand, too much flesh heats the body and occasions fevers and other inflammatory diseases. This plainly points out a due mixture of animal and vegetable food as most proper for children.

Few things prove more hurtful to infants, than the common method of fweetening their food. It entices them to take more than they ought to do, which makes them grow fat and bloated. It is pretty certain, if the food of children were quite plain, that they would never take more than enough. Their excesses are entirely owing to nurses. If a child be gorged with food at all hours, and enticed to take it, by making it sweet and agreeable to the palate, is it any wonder that such a child should in time be induced to crave more food than it ought to have?

Children may be hurt by too little as well as too much food. After a child is weaned, it ought to be fed four or five times a day; but should never be accustomed to eat in the night; neither should it have too much at a time. Children thrive best with small quantities of food frequently given. This neither overloads the stomach nor hurts the digestion, and is certainly most agreeable to nature.

Writers on nurfing have inveighed with such vehemence against giving children too much food, that many parents, by endeavouring to shun that error, have run into the opposite extreme, and ruined the constitutions of their children. But the error of pinching children in their food is more hurtful than the other extreme. Nature has many ways of relieving herfelf when overcharged; but a child, who is pinched with hunger, will never become a strong or healthy man. That errors are frequently committed on both sides, we are ready to acknowledge; but where one child is hurt by the quantity of its food, ten suffer from the quality. This is the principal evil, and claims our strictest attention.

Many people imagine, that the food which they themselves love cannot be bad for their children: but this notion is very absurd. In the more advanced periods of life we often acquire an inclination for food, which when children we could not endure. Besides, there are many things that by habit may agree very well with the stomach of a grown person, which would be hurtful to a child; as high-seasoned, salted, and smoke-dried provisions, &c. It would also be improper to feed children with fat meat, strong brothe, rich soups, or the like.

All strong liquors are hurtful to children. Some parents teach their children to guzzle ale, and other fermented liquors, at every meal. Such a practice cannot fail to do mischief. These children seldom escape the violence of the small-pox, measies, hooping cough or -force influencetory disorder. Milk, water, butter-milk, or

whey, are the most proper for children to drink. If they have any thing stronger, it may be fine small beer, or a little wine mixed with water. The stomachs of children can digest well enough without the assistance of warm slimulants: besides, being naturally hot,

they are easily hurt by every thing of a heating quality.

Few things are more hurtful to children than unripe fruits. They weaken the powers of digestion, and sour and relax the stomach, by which means it becomes a proper nest for insects. Children indeed shew a great inclination for fruit, and I am apt to believe, that if good ripe fruit were allowed them in proper quantity, it would have no bad effects. We never find a natural inclination wrong, if properly regulated. Fruits are generally of a cooling nature, and correct the heat and actimony of the humours. This is what most children require; only care should be taken lest they exceed. Indeed the best way to prevent children from going to excess in the use of fruit, or eating that which is bad, is to allow them a proper quantity of what is good\*.

Roots which contain a crude viscid juice should be sparingly given to children. They fill the body with gross humours, and tend to produce eruptive diseases. This caution is peculiarly necessary for the poor; glad to obtain at a small price what will fill the bellies of their children, they stuff them two or three times a day with greasy potatoes, or other crude vegetables. Children had better eat a smaller quantity of food which yields a wholesome nourishment, than be crammed with what their digestive powers are unable pro-

perly to diffimilate.

Butter ought likewise sparingly to be given to children. It both relaxes the stomach, and produces gross humours. Indeed, most things that are fat or oily, have this effect. Butter when salted, becomes still more hurtful. Instead of butter, so liberally given to children in many parts of Britain, we would recommend honey. Honey is not only wholesome, but cooling, cleansing, and tends to sweeten the humours. Children who eat honey are seldom troubled with worms: they are also less subject to cutaneous diseases, as itch, scabbed head, &c.

Many people err in thinking the diet of children ought to be altogether moift. When children live entirely upon flops, it relaxes

<sup>\*</sup> Children are always fickly in the fruit scasson, which may be thus accounted for: Fivo-thirds of the fruit which comes to market in this country is really unripe; and children not being in a condition to judge for themselves, eat whatever they can lay their hands upon, which often proves little better than a posson to their tender bowels. Servants, and others who have the care of children, should be strictly forbid to give them any fruit without the knowledge of their parents.

their folids, renders them weak, and disposes them to the rickets, the scrophula, and other glandular disorders. Relaxation is one of the most general causes of the diseases of children. Every thing therefore which tends to unbrace their solids, ought to be carefully avoided.

We would not be understood by these observations as onfining children to any particular kind of food. Their diet may frequently varied, provided always that sufficient regard be had sim-

plicity.

Of the Exercise of Children.

Of all the causes which conspire to render the life of man short and miserable, none has greater influence than the want of proper EXERCISE: healthy parents, wholesome food, and proper clothing, will avail little, where exercise is neglected. Sufficient exercise will make up for several defects in nursing; but nothing can supply the want of it. It is absolutely necessary to the health, the growth,

and the strength of children.

The desire of exercise is coeval with life itself. Were this principle attended to, many diseases might be prevented. But while indolence and sedentary employments prevent two-thirds of mankind from either taking sufficient exercise themselves, or giving it to their children, what have we to expect but diseases and deformity among their offspring? The rickets, so destructive to children, never appeared in Britain till manufactories began to slourish, and people attracted by the love of gain, left the country to follow sedentary employments in great towns. It is amongst these people that this disease chiefly prevails, and not only deforms, but kills many of their offspring.

The conduct of other young animals shews the propriety of giving exercise to children. Every other animal makes use of its organs of motion as soon as it can, and many of them, even when under no necessity of moving in quest of food, cannot be restrained without force. This is evidently the case with the calf, the lamb, and most other young animals. If these creatures were not permitted to frisk about and take exercise, they would soon die or become diseased. The same inclination appears very early in the human species; but as they are not able to take exercise themselves, it is the business

of their parents and nurses to assist them.

Children may be exercised various ways. The best method while they are light, is to carry them about in the nurse's arms\*.

<sup>\*</sup> The nurse ought to be careful to keep the child in a proper position; as deformity is often the consequence of inattention to this circumstance. Its situation ought also to be frequently changed. I have known a child's legs bent all on one side, by the nurse carrying it constantly on one arm.

This gives the nurse an opportunity of talking to the child, and of pointing out every thing that may please and delight its fancy. Befides, it is much safer than swinging an infant in a machine, or leaving it to the care of such as are not sit to take care of themselves. Nothing can be more absurd than to set one child to take care of another; this cuaduct has proved satal to many infants, and has

rendered others miserable for life,

When children begin to walk, the fafeft and best method of leading them about, is by the hand. The common way; of swinging them in leading-strings fixed to their backs, has several bad confequences. It makes them throw their bodies forward, and press with their whole weight upon their stomach and breast; by this means the breathing is obstructed, the breast sluttened, and the bowels compressed; which must hurt the digestion, and occasion con-

fumptions of the lungs, and other diseases.

It is a common notion, that if children are fet upon their feet too foon, their legs will become crocked. There is reason to beleive, that the very reverse of this is true. Every member acquires strength in proportion as it is exercised. The limbs of children are weak indeed, but their bodies are proportionally light; and had they skill to direct themselves, they would soon be able to support their own weight. Who ever heard of any other animal that became crocked by using its legs too soon? Indeed, if a child is not permitted to make any use of its legs till a considerable time after the birth, and be then set upon them with its whole weight at once, there may be some danger; but this proceeds entirely from the child's not having been accustomed to use its legs from the beginning.

Mothers of the poorer fort think they are great gainers by making their children lie or fit while they themselves work. In this they are greatly mistaken. By neglecting to give their children exercise, they are obliged to keep them a long time before they can do any thing for themselves, and to spend more on medicine than would

have paid for proper care.

To take care of their children, is the most useful business in which even the poor can be employed: but, alas! it is not always in their power. Poverty often obliges them to neglect their off-spring, in order to procure the necessaries of life. When this is the case, it becomes the interest as well as the duty of the public to affift them. Ten thousand times more benefit would accrue to the state, by enabling the poor to bring up their own children, than from all the hospitals\* that ever can be erected for that purpose.

<sup>\*</sup> If it were made the interest of the year to keep their children alive, we should life any show if them. A small premium given annually to each poor family, for every shild they have alive at the year's end, would

Whoever confiders the structure of the human body will soon be convinced of the necessity of exercise for the health of children. The body is composed of an infinite number of tubes, whose shids cannot be pushed on without the action and pressure of the muscles. But, if the fluids remain inactive, obstructions must happen, and the humours will of courfe be vitiated, which cannot fail to cccasion diseases. Nature has furnished both the vessels which carry the blood and lymph with numerous valves, in order that the action of every muscle might push forward their centents; but without action, this admirable contrivance can have no effect. This part of the animal economy proves to a demonstration the necessity of exercise for the preservation of health.

Arguments to shew the importance of exercise might be drawn from every part of the animal economy; without exercise, the circulation of the blood cannot be properly carried on, nor the different fecretions duly performed; without exercise, the fluids cannot be properly prepared, nor the folids rendered strong or firm. The action of the heart, the motion of the lungs, and all the vital functions are greatly affitted by exercise. But to point out the manner in which these effects are produced, would lead us further into the economy of the human body, than most of those for whom this treatife is intended would be able to follow. We shall therefore only add, that, where exercise is neglected, none of the animal functions can be duly performed; and when that is the case, the whole constitution must go to wreck.

A good constitution ought certainly to be our first object in the management of children. It lays a foundation for their being useful and happy in life; and whoever neglects it, not only fails in his du-

ty to his offspring but to fociety.

One very common error of parents, by which they hurt the conflitutions of their children, is the fending them too young to school. This is often done folely to prevent trouble. When the child is at school, he needs no keeper. Thus the school-master is made the nurse; and the poor child is fixed to a seat seven or eight hours a day, which time ought to be spent in exercise and diversions. Sitting so long cannot fail to produce the worst effects upon the body; nor is the mind lefs injured. Early application weakens the facul-

fave more, infant lives than if the whole revenue of the crown were expended on hospitals for this purpose. This would make the poor eseem fertility a bloffing; whereas many of them think it the greatest curse that can beful them; and in place of wishing their children to live, so far does poverty get the better of natural affection, that they are often very happy when they die.

ties, and often fixes in the mind an avertion to books, which confin-

ues for life\*.

But suppose this were the way to make children scholars, it certainly ought not to be done at the expense of their constitutions.—Our ancestors, who seldom went to school very young, were not less learned than we. But we imagine the boy's education will be quite marred, unless he be carried to school in his nurse's arms. No wonder if such hot-bed plants seldom become either scholars or men!

Not only the confinement of children in public schools, but their number, often proves hurtful. Children are much injured by being kept in crowds within doors; their breathing not only renders the place unwholesome, but if any one of them happens to be diseased, the rest catch the infection. A single child has been often known to communicate the bloody flux, the hooping-cough, the steh, or other diseases, to almost every individual in a numerons

school.

But, if fashion must prevail, and infants are to be sent to school, we would recommend it to teachers, as they value the interests of society, not to confine them too long at a time, but allow them to run about and play at such active diversions as may promote their growth, and strengthen their constitutions. Were boys, instead of being whipped for stealing an hour to run, ride, swim, or the like, encouraged to employ a proper part of their time in these manly and useful exercises, it would have many excellent effects.

It would be of great fervice to boys, if at a proper age, they were taught the military exercise. This would increase their strength, inspire them with courage, and when their country called for their assistance, would enable them to act in her defence, without being obliged to undergo a tedious and troublesome course of instructions, at a time when they are less fit to learn new motions, gestures, &c.

An effeminate education will infallibly spoil the best natural constitution; and if boys are brought up in a more delicate manner

than even girls ought to be, they never will be men.

Nor is the common education of girls less hurtful to the constitution than that of boys. Miss is set down to her frame before she can put on her clothes; and is taught to believe, that to excel at the needle is the only thing that can entitle her to general esteem.

<sup>\*</sup> It is undoubtedly the duty of parents to instruct their children, at least till they are of an age proper to take some care of themselves. This would tend much to confirm the ties of parentel tenterness and silial affestion, of the want of which there are at present so many deplorable instances. Though serve sathers have time to instruct their children, yet must methers have; and surely they cannot be better employed.

It is unnecessary here to insist on the dangerous consequences of obliging girls to sit too much. They are pretty well known, and are too often felt at a certain time of life. But supposing this critical period to be got over, greater dangers still await them when they come to be mothers. Women who have been early accustomed to a sedentary life, generally run a great hazard in childbed; while those who have been used to romp about, and take sufficient exercise, are seldom in any danger.

One hardly meets with a girl who can at the fame time boast of early performances with the needle, and a good constitution.—Close and early confinement generally occasions indigestions, head-achs, pale complections, pain of the stomach, soft of appetit, coughs, consumptions of the lungs, and deformity of body. The last of these indeed is not to be wondered at, considering the aukward postures in which girls sit at many kinds of needle work, and the deli-

cate flexible state of their bodies in the early periods of life.

Would mothers, instead of having their daughters instructed in many trisling accomplishments, employ them in plain work and housewifery, and allow them sufficient exercise in the open air, they would both make them more healthy mothers, and more useful members of society. I am no enemy to genteel accomplishments, but would have them only considered as secondary, and al-

ways difregarded when they impair health.

Many people imagine it a great advantage for children to be early taught to earn their bread. This opinion is certainly right, provided they were so employed as not to hart their health or growth; but, when these suffer, society, instead of being benefited, is a real loser by their labour. There are sew employments, except sedentary ones, by which children can earn a livelihood; and it they be set to these too soon, it ruins their constitutions. Thus, by gaining a few years from childhood, we generally lose twice as many in the latter period of life, and even render the person less insessal while he does live.

In order to be fatisfied of the truth of this observation, we need only look in the great manufacturing town, where we shall find a puny degenerate race of people, weak and sickly all their lives seldom exceeding the middle period of life; or if they do, being unfit for butines, they become a burden to society.—Thus arts and manufactures, though they may increase the riches of a country, are by no means favourable to the health of its inhabitants. Good policy would therefore require, that such people as labour during life, should not be set too early to work.—Every person conversant in the breeding of horses, or other working animals, knows that if they be set to hard labour too soon, they will never turn out to advantage. This is equally true with respect to the human species.

There are nevertheless various ways of employing young people without hurring their health. The easier parts of gardening, hufbandry, or any business carried on without doors, are most proper. These are employments which most young people are fond of, and and some parts of them may always be adapted to their age, taste, and strength\*.

Such parents, however, as are under the necessity of employing their children within doors, ought to allow them sufficient time for active divertions without. This would both encourage them to do more work, and prevent their constitutions from being hurt.

Some imagine, that exercise within doors is sufficient; but they are greatly mistaken. One hour spent in running, or any other exercise without doors, is worth ten within. When children cannot go abroad, they may indeed be exercised at home. The best method of doing this, is to make them run about in a long room, or dance. This last kind of exercise, if not carried to excess, is of excellent service to young people. It cheers the spirits, promotes perspiration, strengthens the limbs, &c. I know an eminent physician who used to say, that he made his children dance, instead of giving them physic. It were well if more people followed his example.

The COLD BATH may be confidered as an aid to exercise.—By it the body is braced and strengthened, the circulation and secretions promoted, and, were it conducted with prudence, many diseases, as the rickets, scrophula, &c. might be prevented. The ancients, who took every method to render children hardy and robust, were no strengers to the use of the cold bath; and, if we may credit report, the practice of it mensing children daily in cold water must

have been very common among our ancestors.

The greatest objection to the use of the cold bath arises from the superstituous prejudices of marks. These are often so strong that it is impessible to bring them to make a proper use of it.—I have known some of them who would not dry a child's skin after bathing it lest it should destroy the effect of the water. Others will even put cloths dipt in the water upon the child, and either put it to bed, or suffer it to go about in that condition. Some believe, that the whole virtue of the water depends upon its being dedicated to a particular faint; while others place their confidence in a certain number of dips, as three, seven, nine, or the like; and the world could not persuade them, it these do not succeed to try it a little longer. Thus, by the whims of nurses, children lose the benefit of the cold

<sup>\*</sup> I have been told that in China, where the police is the hest in the world, all the children are employed in the ensure part of gardening and I shordry; as coolding, gathering stances off the land, and such like.

bath, and the hopes of the physician from that medicine are often fruttrated.

We ought not, however, entirely to fet aside the cold bath, because some nurses make a wrong use of it. Every child, when in health, should at least have its extremities daily washed in cold water. This is a partial use of the cold bath, and is better than none. In winter this may suffice; but in the warm scason, if a child be relaxed, or seem to have a tendency to the rickets or scrophula, its whole body ought frequently to be immersed in cold water. Care however must be taken not to do this when the body is hot, or the stomach full. The child should be dipt only once at a time, should be taken out immediately, and have its skin well rubbed with a dry cloth.

The bad effects of unsubolesome Air upon Children.

Few things prove more destructive to children than confined or unwholesome air. This is the reason why so tew of those infants, who are put into hospitals, or parish work-houses, live. These places are generally crowded with old, sickly, and infirm people; by which means the air is rendered so extremely pernicious, that it

becomes a poilon to infants.

Want of wholesome air is likewise destructive to many of the children born in great towns. There the poorer fort of inhabitants live in low, dirty, confined houses, to which the fresh air has hardly any access. Though grown people, who are hardy and robust, may live in fuch fituations, yet they generally prove fatal to their offspring, few of whom arrive at maturity, and those who do are weak and deformed. As such people are not in a condition to carry their children abroad into the open air, we must lay our account with losing the greater part of them. But the rich have not this excuse. It is their business to see that their children be daily carried abroad, and that they be kept in the open air for a fufficient time. This will always succeed better if the mother goes along with them. Servants are often negligent in these matters, and allow a child to fit or lie on the damp ground, instead of leading or carrying it about. The mother furely needs air as well as her children; and how can the be better employed than in attending them?

A very bad cufforn prevails, of making children fleep in fmall apartments, or crowding two or three beds into one chamber. Inficed of this, the nurfery ought always to be the largest and best aired room in the house. When children are confided in finall apartments, the air not only becomes unwholesome, but the heat relaxes their folids, renders them delicate, and disposes them to colds and many other disorders. Nor is the custom of wrapping them up too close in cradles less pernicious. One would think that nurses were afraid less children should suffer by breathing free air; as many of

them actually cover the child's face while affecp, and others wrap a covering over the whole cradle, by which means the child is forced to breathe the fame air over and over all the time it fleeps. Cradles indeed are on many accounts hurtful to children, and it would be better if the use of them were totally laid aside\*.

A child is generally laid to fleep with all its clothes on; and if a number of others are heaped above them, it must be overheated; by which means it cannot full to catch cold on being taken out of the cralle, and exposed to the open air with only its usual clothing,

which is too frequently the cafe.

Children who are kept within doors all day, and fleep all night in warm close apartments, may, with great propriety, be compared to plants, nursed in a hot-house, instead of the open air. Though such plants may by these means be kept alive for some time they will never arrive at that degree of strength, vigour, and magnitude, which they would have acquired in the open air, nor would they be able to bear it afterwards, should they be exposed to it.

Children brenght up in the country, who have been accustomed to open air, should not be too early sent to great towns, where it is confined and unwhol some. This is trequently done with a view to forward their education, but proves very hurtful to their health. All schools and seminaries of learning eight, if possible, to be so situated as to have fresh, dry, wholesome air, and should never be

too much crowded.

Without entering into a detail of the particular advantages of wholesome air to children, or of the bad consequences which proceed from the want of it, I shall only observe, that of several shouf-ands of children which have been under my care, I do not remember one instance of a single child which continued healthy in a close confined situation; but have often known the most obstinate discases cured by removing them from such a situation to an open free air.

I was very lately called to see an infant which was said to be expiring in conversion fits. I desired the mother to strip the child, and wrap it in a

loofe covering. It had no more convulsion sits.

<sup>\*</sup> It is amazing how children escape sufficiation, considering the manner in which they are often rolled up in flaunels, &c. I lately attended an infant, whem I found mussied up over head and cars in many folds of slaunel, though it was in the middle of June. I bezzed for a little free air to the poor babe; but though this indulgence was granted during my stay, I found it always on my return in the same situation. Death, as might be expected, soon freed the infant from all its miscries: but it was not in my power to tree the minds of its parents from those prejudices which proved fatal to their child.

Of Nurses.

It is not here intended to lay down rules for the choice of nurfes. This would be wasting time. Common sense will di ect every one to chuse a woman who is healthy, and has plenty of milk\*. If she be at the same time cleanly, careful, and good natured, she can hardly fail to make a proper nurse. After all, however, the only certain proof of a good nurse, is a healthy child upon her breast. But, as the misconduct of nurses often proves statal to children, it will be of importance to point out a few of their most baneful errors, in order to rouse the attention of parents, and to make them look more strictly into the conduct of those to whom they commit the care of their infant offspring.

Though it admits of some exceptions, vet we may lav it down as a general rule, that every avoman who nurses for hire should be carefully looked after, otherwise she will not do her duty. For this reason parents ought always to have their children nursed under their own eye, if possible; and where this cannot be done, they should be extremely circumspect in the choice of those persons to whom they intrust them. It is folly to imagine that any woman, who abandons her own child to suckle another for the sake of gain, should feel all the affections of a parent towards her nurshing; yet so necessary are these affections in a nurse, that, but for them, the human race would soon be extinct.

One of the most common faults of those who nurse for hire, is to dose children with stupesactives, or such things as hall them asseep. An indolent nurse, who does not give a child sufficient exercise in the open air to make it sleep, and does not chuse to be disturbed by it in the night, will seldom fail to procure for it a dose of laudanum, diacodium, saffron, or what answers the same purpose, a dose of spirits, or other strong liquors. These, though they be certain poison to infants, are every day dministered by many who bear the character of very good nursest.

A nurse who has not milk enough is apt to imagine that this defect may be supplied by giving their child wines, cordial waters, or other strong liquors. This is an egregious mistake. The only thing that has any chance to supply the place of the nurse's milk, must be somewhat nearly of the same quality, as cow's milk, ass's milk, or beef tea, with good bread. It never can be done by the

<sup>\*</sup> I have often known people so impesed upon, as to give an infant to a nurse to be suckled, who had not one drop of milk in her breast.

<sup>†</sup> If a mother on visiting her child at nurse find it always assep; I would advise her to remove it immediately; otherwise it will seen sleep its last.

help of strong liquors. These, instead of nourishing an infant,

never fail to produce the contrary eff &.

Children are often hurt by nurses suffering them to cry long and vehemently. This strains their tender bodies, and frequently occasions ruptures, inflammations of the throat, lungs, &c. A child never continues to cry long without some cause, which might always be discovered by proper attention; and the rurse who can hear an infant cry till it has alm I spent itself, without endeavouring to please it, must be cruel indeed, and is unworthy to be intrusted with the care of an human creature.

Nurses who deal much in medicine are always to be surpected. They trust to it, and neglect their duty. I never knew a good nurse who had her Godfrey's cordials, Dasfy's clixirs, &c. at hand. Such generally imagine, that a dose of medicine will make up for all defects in food, air, exercise, and cle nlinese. By errors of this kind, I will venture to say, that one half the children who die an-

nuelly in London lose their lives.

Allowing children to continue long wet, is another very pernicious cuftom of indolent nurses. This is not only disagreeable, but it galls and frets the infant, and, by relaxing the solids, occasions scrophulas, rickets, and other discases. A dirty nurse is always to

be suspected.

Nature often attempts to free the bodies of children from bad humours, by throwing them upon the skin; by this means fevers and other diseases are prevented. Nurses are apt to mistake such critical eruptions for an itch, or some other infections disorder. Accordingly they take every method to drive them in. In this way many children lose their lives: and no wonder, as Nature is opposed in the very method she takes to relieve them. It ought to be a rule, which every nurse should observe, never to stop any cruption without proper advice, or being well assured that it is not of a critical nature. At any rate, it is never to be done without previous evacuations.

Loose stools is another method by which nature often prevents or carries off the diseases of infants. If these proceed too far, no doubt they ought to be checked; but this is never to be done without the greatest caution. Nurses, upon the first appearance of loose stools, frequently sly to the use of astringents, or such things as bind the body. Hence inflammatory severs, and other state diseases, are occasioned. A dote of rhubarb, a gentle voneit, or some other evacuation, should always precede the use of astringent medicines.

One of the greatest faults of nurses is, concealing the diseases of children from their parents. This they are extremely ready to do, especially when the disease is the effect of their own negligence.

Many instances might be given of persons who have been rendered lame for life by a fall from their nurse's arms, which she, through fear, concealed till the missortune was past cure. Every parent who intrusts a nurse with the care of a child, ought to give her the strictest charge not to conceal the most trisling disorder or missortune that may befal it.

We can fee no reason why a nurse, who conceals any missortune which happens to a child under her care, till it loses its life or limbs, thould not be punished. A few examples of this would save the lives of many infants: but as there is little reason to expect that it ever will be the case, we would earnestly recommend it to all parents to look carefully after their children, and not to trust so valua-

ble a treasure entirely in the hands of an hireling.

No person ought to imagine these things unworthy of his attention. On the proper management of children depend not only their health and usefulness in life, but likewise the safety and prosperity of the state to which they belong. Effeminacy ever will prove the ruin of any state where it prevails; and, when its foundations are laid in infancy, it can never afterwards be wholly eradicated. Parents who love their offspring, and wish well to their country, ought therefore, in the management of their children, to avoid every thing that may have a tendency to make them weak or effeminate, and to take every method in their power to render their constitutions strong and hardy.

By arts like these
Laconia nurs'd of old her hardy sons;
And Rome's unconquer'd legions urg'd their way,
Unhurt, thro' every toil in every clime\*.

# C H A P. II.

OF THE LABORIOUS, THE SEDENTARY, AND THE STUDIOUS.

HAT men are exposed to particular diseases from the occupations which they follow, is a fact well known; but to remedy this evil is a matter of some difficulty. Most people are under the necessity of following those employments to which they have been bred, whether they be favourable to health or not. For this reason, instead of inveighing in a general way, as some authors

have done, against those occupations which are nurtful to health, we shall endeavour to point out the circumstances in each of them from which the danger chiefly arises, and to propose the most ra-

tional methods of preventing it.

Chymists, founders, forgers, glass-makers, and several other artists, are hurt by the unwholesome air which they are obliged to breathe! This air is not only loaded with the noxious exhalations arising from metals and minerals, but is so charged with phlogiston as to be rendered unsit for expanding the lungs sufficiently, and answering the other important purposes of respiration. Hence proceed atthmas, coughs, and consumptions of the lungs, so incident

to persons who follow these employments.

To prevent fucli confequences, as far as possible, the places where these occupations are carried on, ought to be constructed in such a manner as to discharge the smoke and other exhalations, and admit a free current of fresh air. Such artists ought never to continue too long at work; and when they give over, they should suffer themselves to cool gradually, and put on their clothes before they go into the open air. They ought never to drink large quantities of cold, weak, or watery liquors, while their bodies are hot, nor to include in raw fruits, sallads, or any thing that is cold on the stomach\*.

Miners and all who work under ground, are likewise hurt by unwholesome air. The air, by its stagnation in deep mines, not only loses its proper spring and other qualities necessary for respiration, but is often loaded with such noxious exhalations as to be-

come a most deadly poison.

The two kinds of air which prove most destructive to miners, are what they call the fire damp and the choke damp. In both cases the air becomes a poison, by its being loaded with phlogiston. The danger from the former may be obviated by making it explode before it accumulates in too great quantities; and the latter may be generally carried off by promoting a free circulation of air in the mine.

Miners are not only hurt by unwholesome air, but likewise by the particles of metal which adhere to their skin, clothes, &c.—These are absorbed, or taken up into the body, and occasion palsies, vertigoes, and other nervous affections, which often prove satal. Fallopious observes, that those who work in mines of mercury seldom live above three or sour years. Lead, and several other metals, are likewise very pernicious to the health.

<sup>\*</sup> When perfons heated with labour have drank cold liquor, they ought to continue at work for some time after.

Miners ought never to go to work fasting, nor to continue too long at work. Their food ought to be nourishing, and their liquor generous: nothing more certainly harts them than living too low. They should by all means avoid costiveness. This may either be done by chewing a little rhubarb, or taking a sofficient quantity of sallid oil. Oil not only opens the body, but sheathes and defends the intestines from the ill effects of the metals. All who work in mines and metals ought to wash carefully, and to change their clothes as soon as they give over working. Nothing would tend more to preserve the health of such people than a strict, and almost religious regard to cleanliness.

Plumbers, painters, gilders, smelters, makers of white lead, and many others who work in metals, are liable to the same diseases as miners, and ought to observe the same directions for avoiding

them.

Tallow-chandlers, boilers of oil, and all who work in putrid animal substances, are likewise liable to suffer from the unwholesome finells or effluvia of these bodies. They ought to pay the same regard to cleanliness as miners; and when they are affected with nausea, sickness, and indigestion, we would advise them to take a vomit or a gentle purge. Such substances ought always to be manufactured as soon as possible. When long kept, they not only become unwholesome to those who manufacture them, but likewise to people who live in the neighbourhood.

It would greatly exceed the limits of this part of our fibject, to specify the diseases peculiar to persons of every occupation; we shall therefore consider mankind under the general classes of *Labori*-

ous, Sedentary, and Studious.

#### THE LABORIOUS.

Though those who follow laborious employments are in general the most healthy of mankind, yet the nature of their occupations, and the places where they are carried on, expose them more particularly to some diseases. Husbandmen, for example, are exposed to all the vicissifitudes of the weather, which, in this country, are often very great and sudden, and occasion colds, coughs, quinsies, rheumatisms, severs, and other acute disorders. They are likewise forced to work hard, and aften to carry burdens above their strength, which, by overstraining the vessels, occasion assume ruptures, pleurisies, &cc.

Those who labour without doors are often afflicted with intermitting severs or agues, occasioned by the frequent vicissimides of heat and cold, poor living, bad water, sitting or lying on the damp ground, evening dews, night air, &c. to which they are frequently

exposed.

Such as hear heavy burdens, as porters, labourers, &c. are obliged to draw in the air with much greater force, and also to keep their lungs distended with more violence than necessary for common respiration: by this means the tender veisels of the lungs are over-stretched, and often built, insemuch that a spitting of blood or fever ensus. Hippocrates mentions an instance to this purpose, of a man, who, upon a wager, carried an ass; but was soon after seized

with a fever, a vomiting of blood, and a rupture.

Carrying heavy burdens is generally the effect of mere laziness, which prompts people to do at once what should be done at twice. Sometimes it proceeds from vanity or emulation. Hence it is, that the strongest men are most commonly burt by heavy burdens, hard labour, or feats of activity. It is rare to find one who boasts of his strength without a rupture, a spitting of blood, or some other disease, which he reaps as the fruits of his folly. One would imagine, the daily instances we have of the statl effects of carrying great weights, running, wrestling, and the like, would be sufficient to prevent such practices.

There are indeed some employments which necessarily require a great exertion of strength; as porters, blacksmiths, carpenters, &c. None ought to follow these but men of strong body; and they should never exert their strength to the utmost, nor work too long. When the muscles are violently strained, frequent rest is necessary, in order that they may recover their tone, without this, the strength and constitution will soon be worn out, and a premature old age be-

induced.

The erifipelas, or St. Anthony's fire, is a difease very incident to the laborious. It is occasioned by whatever gives a sudden check to the perspiration, as drinking cold water when the body is warm, wet feet, keeping on wet clothes, sitting or lying on the damp ground, &cc. It is impossible for those who labour without doors always to guard against these inconveniences; but it is known from experience, that their ill consequences might often be prevented by

proper care.

The iliac passion, the cholic, and other complaints of the bowels, are often occasioned by the same causes as the erisipelas; but they may likewise proceed from flatulent and indigestible food. Labourers generally eat unfermented bread, made of peas, beans, rye, and other windy ingredients. They also devour great quantities of unripe fruits, baked, slewed, or raw, with various kinds of roots and herbs, upon which they often drink sour milk, stale small beer, or the like. Such a mixture cannot fail to fill the bowels with wind, and occasion diseases of those parts.

Inflammations, whitloes, and other diseases of the extremities, are likewise common among those who labour without doors. These

diseases are often attributed to venom, or some kind of poison; but they generally proceed either from sudden heat after cold, or the contrary. When labourers, milk-maids, &c. come from the field, cold or wet, they run to the fire, and often plunge their hands in warm water, by which means the blood and other humours in those parts are suddenly expanded, and, the vessels not yielding so quickly, a strangulation happens, and an imstammation or a mortification ensues.

When such persons come home cold, they ought to keep at a distance from the fire for some time, to wash their hands in cold water, and to rub them well with a dry cloth. It sometimes happens, that people are so benumbed with cold, as to be quite deprived of the use of their limbs. In this case, the only remedy is to rub the parts affected with snow, or, where it cannot be had, with cold water. If they be held near the fire, or plunged into warm water, a mortification will generally ensue.

Labourers in the hot feafon are apt to lie down and fleep in the fun. This practice is fo dangerous, that they often awake in a burning fever. These ardent severs, which prove so fatal about the end of summer and beginning of autumn, are frequently occa-fioned by this means. When labourers leave off work, which they ought always to do during the heat of the day, they should go home, or at least get under some cover where they may repose

themselves in safety.

Many people follow their employments in the fields from mornning till night, without eating any thing. This cannot fail to hurt their health. However homely their fare be, they ought to have it at regular times; and the harder they work, the more frequently they should eat. If the humours be not frequently replenished with fresh nourishment, they soon become putrid, and produce fevers of

the very worst kind.

Many peafants are extremely careless with respect to what they cat and drink, and often, through mere indolence, use unwhole-some food, when they might, for the same expense, have that which is wholesome. In some parts of Britain, the peasants are too care-less even to take the trouble of dressing their own victuals. Such people would live upon one meal a day in indolence, rather than labour, though it were to procure them the greatest assumes.

Fevers of a very bad kind are often occasioned among Jabourers by poor living. When the body is not sufficiently nourithed, the homours become vitiated, and the folids weak; from whence the most statal consequences ensue. Poor living is likewise productive of many of those cutaneous diseases so frequent among the lower class of people. It is remarkable that cattle, when pinched in their tood, are generally affected with diseases of the skin, which seldom

fail to disappear when they are put upon a good pasture. This shews how much a good state of the humours depends upon a suffi-

cient quantity of proper nourithment.

Poverty not only occasions, but aggravates, many of the diseases of the laborious. Few of them have much foresight; and, if they had, it is seldom in their power to save any thing. They are glad to make a shift to live from day to day; and when any disease overtakes them, they are miserable indeed. Here the godlike virtue of charity ought always to exert itself. To relieve the industrious poor in distress, is surely the most exalted act of religion and humanity. They alone, who are witnesses of those scenes of calamity, can form a notion of what numbers perish in diseases, for want of proper assistance, and even for want of the necessaries of life.

Labourers are often hurt by a foolish emulation, which prompts them to vie with one another, till they overheat themselves to such a degree as to occasion a fever, or even to drop down dead. Such as wantonly throw away their lives in this manner, deserve to be

locked upon in no better light than felf-murderers.

The office of a foldier in time of war, may be ranked among the laborious employments. Soldiers fuffer many hardfhips from the inclemency of feafons, long marches, bad provisions, hunger, watching, unwholesome climates, bad water, &c. These occasion fevers, fluxes, theumatisms, and other fatal diseases, which generally do greater execution than the sword, especially when campaigns are continued too late in the season. A few weeks of cold rainy weather will often prove more fatal than an engagement.

Those who have the command of armies should take care that their foldiers be well clothed and well fed. They cught also to finish their campaign in due season, and to provide their men with dry and well-aired winter quarters. These rules, taking care, at the same time, to keep the sick at a proper distance from those in health, would tend greatly to preserve the lives of the soldiery\*.

Sailors may also be numbered among the laborious. They undergo great hardships from change of climate, the violence of the weather, hard labor, bad provisions, &c. Sailors are of so great importance both to the trade and safety of this kingdom, that too much pains can never be bestowed in pointing out the means of preferving their lives.

<sup>\*</sup> It is indeed to be regretted, that soldiers suffer more from indolence and intemperance in time of peace, than from hardships in time of war. If men are idle they will be vicious. It would therefore be of great importance, could a scheme be formed for rendering the military, in times of peace, both more healthy and more useful. This might be effected by employing them for several bours every day, and advancing their say accordingly.

One great fource of the diseases of sea-faring people is excess. When they get on shore, after having been long at sea, without regard to the climate, or their own constitutions, they plunge headlong into all manner of riot, and often persist till a sever puts an end to their lives. Thus intemperance, and not the climate, is often the cause why so many of our brave sailors die on foreign coasts. Such people ought not to live too low; but they will find moderation the best desence against severs and many other maladies.

Sailors, when on duty, cannot avoid sometimes getting wet. When this happens, they should change their clothes as soon as they are relieved, and take every method to restore the perspiration. They should not, in this case, make too free with spirits or other strong liquors, but should rather drink them diluted with warm water, and imediately go to bed, where a sound sleep and gentle sweat

would fet all to rights.

But the health of failors suffers most from unwholesome food. The constant use of salted provisions vitiates their humours, and eccasions the scurvy, and other obstinate maladies. It is no easy matter to prevent this disease in long voyages? yet we cannot help thinking, that much might be done towards effecting so desirable an end, were due pains bestowed for that purpose. For example, various roots, greens, and fruits, might be kept a long time at sea, as enions, potatoes, cabbages, lemons, oranges, tamarinds, apples, &c. When fruits cannot be kept, the juices of them, either fresh or fermented, may. With these all the drink, and even the sood of the ship's company, ought to be acidulated in long voyages.

Stale bread and beer, likewise contribute to vitiate the humours. Flour will keep for a long time on board, of which fresh bread might frequently be made. Malt too might be kept and insused with boiling water at any time. This liquor, when drank even in form of wort, is very wholesome, and is found to be an antidote against the scory. Small wines and cyder might likewise be plentifully laid in; and should they turn sour, they would still be useful as vinegar. Vinegar is a great antidote against diseases, and should be used by all travellers, especially at sea. It may either be

mixed with the water they drink, or taken in their food,

Such animals as can be kept alive, ought likewise to be carried on board, as hens, ducks, pigs, &c. Fresh broths made of portable soup, and puddings made of peas, or other vegetables, ought to be used plentially. Many other things will readily occur to people conversant in these matters, which would tend to preserve the health of that brave and useful set of men\*.

<sup>\*</sup> Our countryman, the collegrated Captain Cook, has shewn how far, by proper care and ottention, the difectes formerly so fatal to seamen may

We have reason to believe, if due attention were paid to the diet, air, clothing, and above all things to the cleanliness of sca-faring people, they would be the most healthy set of men in the world;

but when these are neglected the very reverse will happen.

The best medical antidote that we can recommend to sailors or foldiers on forcion coasts, especially where dampness prevails, is the Peruvian bark. This will often prevent severs, and other satal diseases. About a drachm of it may be chewed every day; or if this should prove disagreeable, an onnce of bark, with half an onnce of orange peal, and two drachms of snake-root, coarsely pewdered, may be insused for two or three days in an English quart of brandy, and half a wine glass of it taken twice or thrice in a day, when the stomach is empty. This has been found to be an excellent antidote against fluxes, putrid, intermitting, and other severs, in unhealthy climates. It is not material in what form this medicine is taken. It may either be insused in water, wine, or spirits, as recommended above, or made into an electuary with syrup of temons, oranges, or the like.

THE SEDENTARY.

Though nothing can be more contrary to the nature of man than a fedentary life, yet this class comprehends by far the greater part of the species. Almost the whole female world, and in manufacturing countries, the major part of the males, may be reckoned

sedentary\*.

Agriculture, the first and most healthy of all employments,' is now followed but by few who are able to carry on any other business. But those who imagine the culture of the earth is not sufficient to employ all its inhabitants are greatly mistaken. An ancient Roman, we are told, could maintain his family from the produce of one acre of ground. So might a modern Briton, if he would be contented to live like a Roman. This shows what an immense increase of inhabitants Britain reight admit of, and all of them live by the culture of the ground.

be prevented. He failed, in his veyage round the world, in almost every climate, and north to the 71° of fouth latitude, of one hundred and eighteen men, composing the suppose company, he lost only one, who died of a pthisis pulmonalis. This was effected by afferving a strict attention to cleanliness, allowing his men vegetables, fresh provisions, especially

good water, and Sufficient time for reft.

\* The appollation of federatary has generally been given only to the fludious; we can fee no reason, hever er, for restricting it is them alone. Many artificers may, with as much propriety, be denominated sedemary as the studious, with this particular distributione, that they are often obliged to sit in very ackward posseres, which the studious need not do, unless they please.

Agriculture is the great fource of domestic riches. Where it is neglected, whatever wealth may be imported from abroad, poverty and misery will abound at home. Such is, and ever will be the sluctuating state of trade and manufactures, that thousands of people may be in full employment to-day, and in beggary to-morrow.—This can never happen to those who cultivate the ground. They can eat the fruit of their labour, and can always by industry obtain, at least, the necessaries of life.

Though fedentary employments are necessary, yet there feems to be no reason why any person should be confined for life to these alone. Were such employments intermixed with the more active and laborious, they would never do hurt. It is constant consinement that ruins the health. A man may not be hurt by sitting five or six hours a day; but if he is obliged to sit ten or twelve, he will

soon become diseased.

But it is not want of exercise alone which hurts sedentary people; they likewise suffer from the confined air which they breathe. It is very common to see ten or a dozen taylors\*, or stay makers, for example, crowded into one small apartment, where there is hardly room for one person to breathe freely. In this situation they generally continue for many hours at a time, often with the addition of several candles, which tend likewise to waste the air, and render it less fit for respiration. Air that is breathed repeatedly becomes unsit for expanding the lungs. This is one cause of the phthisical coughs, and other complaints of the breast, so incident to sedentary artiseers.

Even the perspiration from a great number of persons pent up together, renders the air unwholesome. The danger from this quarter will be greatly increased, if any one of them happens to have bad lungs, or to be otherwise diseased. Those who sit near him, being forced to breathe the same air, can hardly sail to be infected. It would be a rare thing, however, to find a dozen of sedentary people all in good health. The danger of crowding them together must therefore be evident to every one.

Many of those who follow sedentary employments are constantly in a bending costure, as shoe-makers, taylors, cutters, &c. Such a situation is extremely hurtful. A bending posture obstructs all

<sup>\*</sup> A person of observation in that line of life told me, that most taylors are of consumptions; which he attributed chiefly to the unfavourable postures in which they sit, and the unwholesomeness of those places where their business is carried on. If more attention was not paid to prosit than to the preservation of human lives, this evil might be easily remedied; but while masters only mind their own interest, nothing will be sone for the suffers of their servants.

the vital motions, and of course must destroy the health. Accordingly we find such artificers generally complaining of indigestions,

Manulencies, head-achs, pains of the breafl, &c.

The aliment in federatary people, instead of being pushed forwards by an erect posture, and the action of the muscles, is in a manner confined in the bowels. Hence indigestions, costiveness, wind, and other hypocondriacal affections, are the constant companions of the sedentary. Indeed none of the exerctions can be duly performed where exercise is wanting; and when the matter which ought to be discharged in this way is retained too long in the body, it must have bad effects, as it is again taken up into the mass of humours.

A bending posture is likewise hurtful to the lungs. When this organ is compressed, the air cannot have free access into all its parts, so as to expand them properly. Hence tubercles, adhesions, &c. are formed, which often end in consumptions. Besides, the proper action of the lungs being absolutely necessary for making good blood, when that organ fails, the humours soon become universally

deprayed, and the whole constitution goes to wreck.

Sedentary artificers are not only hurt by preffure on the bowels, but also en the inferior extremities, which obstructs the circulation in these parts, and renders them weak and seeble. Thus taylors, shoemakers, &c. frequently lose the use of their legs altogether: besides, the blood and humours are, by stagnation, vitiated, and the perspiration is obstructed: from whence proceed the seab, ulcerous fores, foul blotches, and other cutaneous diseases, so common among sedentary artificers.

A bad figure of body is a very common consequence of close application to sedentary employments. The spine, for example, by being continually ben, puts on a crocked shape, and generally remains so ever after. But a bad figure of body has already been observed to be hurtful to health, as the vital sunctions are thereby im-

peded.

A fedentary life feldom fails to occasion an universal relaxation of the folids. This is the great fource from whence mest of the discases of fedentary people flow. The scrophula, cunsumption, hysterics, and nervous discases, now so common, were very little known in this country before fedentary artificers became so numerous: and they are very little known still among such of our people as follow active employments without doors, though in great towns at least two thirds of the inhabitants are afflicted with them.

It is very difficult to remedy those evils, because many who have been accustomed to a sedentary life, like rickety children, lose all inclination for exercise; we shall, however, throw out a tew hints with respect to the most likely means for preserving the health of this useful set of people, which some of them, we hope, will be

wife enough to take.

It has been already observed, that sedentary artificers are often hurt by their bending posture. They ought therefore to stand or sit as erect as the nature of their employments will permit. They should likewise change their posture frequently, and should never sit too long at a time, but leave off work, and walk, ride, run, or do any thing that will promote the vital functions.

Sedentary artificers are generally allowed too little time for exercife; yet short as it is, they seldom employ it properly. A journeyman taylor or weaver, for example, instead of walking abroad for exercise and fresh air, at his hours of leisure, chuses often to spend them in a public house, or in playing at some sedentary game,

by which he generally lofes both his time and his money.

The aukward postures in which many sedentary artificers work, seem rather to be the effect of custom than necessity. For example, a table might surely be contrived for ten or a dozen taylors to sit round with liberty for their legs either to hang down, or rest upon a foot-board, as they should chuse. A place might likewise be cut out for each person, in such a manner that he might sit as conveniently for working as in the present mode of sitting cross-legged-

All sedentary artificers ought to pay the most religious regard to cleanlines. Both their situation and occupations render this highly necessary. Nothing would contribute more to preserve their health, than a strict attention to it; and such of them as neglect it, not only run the hazard of losing health, but of becoming a nuisance to

their neighbours.

Sedentary people ought to avoid food that is windy, or hard of digestion, and should pay the strictest regard to sobriety. A person who works hard without doors will soon throw off a debauch; but one who sits has by no means an equal chance. Hence it often happens, that sedentary people are seized with severs after hard drinking. When such persons seel their spirits low, instead of running to the tavern for relief, they should ride, or walk in the fields. This would remove the complaint more effectually than strong liquor, and would never hurt the constitution.

Instead of multiplying rules for preserving the health of the sedentary, we shall recommend to them the following general plan, viz. That every person who follows a sedentary employment should cultivate a piece of ground with his own hands. This he might dig, plant, sow, and weed at leisure hours, so as to make it both an exercise and amusement, while it produced many of the necessaries of life. After working an hour in a garden, a man will return with more keenness to his employment within doors, than if he had

been all the while idle.

Labouring the ground is every way conducive to health. It not only gives exercise to every part of the body, but the very smell of the earth and fresh herbs revives and cheers the spirits, whilst the perpetual prospect of something coming to majurity, delights and entertains the mind. We are so formed as to be always pleased with so newhat in prospect, however distant or however trivial.-Hence the happiness that most men feel in planting, sowing, building, &c. These feem to have been the chief employments of the more early ages: and, when kings and conquerors cultivated the ground, there is reason to believe that they knew as well wherein

true happiness consisted as we do.

It may feem romantic to recommend gardening to manufacturers in great towns; but observation proves that the plan is very practicable. In the town of Shesheld, in Yorkshire, where the great iron manufacture is carried on, there is hardly a journeyman cutler who does not possess a piece of ground, which he cultivates as a gar-This practice has many falutary effects. It not only induces these people to take exercise without doors, but also to eat many greens, roots, &c. of their own growth, which they would never think of purchasing. There can be no reason why manufacturers in any other town in Great Britain should not follow the same plan. It is indeed to be regretted, that in fuch a place as London a plan of this kind is not practicable; vet even there fedentary artificers may find opportunities of taking air and exercise, if they chuse to em-

Mechanics are too much inclined to crowd into great towns. The fituation may have fome advantages; but it has likewife many dif- / All mechanics who live in the country have it in their power to cultivate a piece of ground; which indeed most of them do. This not only gives them exercise, but enables them to live more comfortably. So far at least as my observation extends, mechanics who live in the country are far more happy than those in great towns. They enjoy better health, live in greater affluence, and seldom fail to rear a healthy and numerous offspring.

In a word, exercife without doors, in one shape and another, is absolutely necessary to health. Those who neglect it, though they may for a while drag out life, can hardly be faid to enjoy it. Weak and esseminate, they languish for a sew years, and soon drop into an untimely grave.

### THE STUDIOUS.

Intense thinking is so destructive to health, that few instances can be produced of studious persons who are strong and healthy. fludy always implies a fedentary life; and when intense thinking is joined to the want of exercise, the consequences must be bad.

have frequently known even a few months of close application to study ruin an excellent constitution, by inducing a train of nervous complaints which never could be removed. Man is evidently not formed for continual thought more than for perpetual action, and

would be as foon worn out by the one as the other.

So great is the power of the mind over the body, that, by its influence, the whole vital motions may be accelerated or retarded, to almost any degree. Thus cheerfulness and mirth quicken the circulation, and promote all the fectetions; whereas fadness and profound thought never fail to retard them. Hence it would appear, that even a degree of thoughtlessness, is necessary to health. Indeed the perpetual thinker feldom enjoys either health or spirits; while the person, who can hardly be faid to think at all, generally enjoys both.

Perpetual thinkers, as they are called, feldom think long. In a few years they generally become quite stupid, and exhibit a melancholy proof how readily the greatest blessings may be abused.— Thinking, like every thing else, when carried to extreme, becomes a vice; nor can any thing afford a greater proof of wisdom, than for a man frequently and seasonably to unbend his mind. This may generally be done by mixing in cheerful company, active diversions, or the like.

Instead of attempting to investigate the nature of that connection which subsides between the mind and body, or to inquire into the manner in which they mutually affect each other, we shall only mention those diseases to which the learned are more peculiarly liable, and endeavour to point out the means of avoiding them.

Studious persons are very subject to the gout. This painful disease in a great measure proceeds from indigestion, and an obstructed perspiration. It is impossible that the man who sits from morning till night should either digest his food, or have any of the secretions in due quantity. But when that matter which should be thrown off by the skin, is retained in the body, and the humours are not duly prepared, diseases must ensue.

The studious are likewise very liable to stone and gravel. Exercise greatly promotes both the secretion and discharge of urine; conconsequently a sedentary life must have the contrary effect. Any one may be satisfied of this by observing, that he passes much more urine by day than in the night, and also when he walks or rides,

than when he fits.

The circulation in the liver being flow, obstructions in that organ can hardly fail to be the consequence of inactivity. Hence sedentary people are frequently afflicted with schirrons livers. But the proper secretion and discharge of the bile is so necessary a part of the animal economy, that where these are not duly performed, the

health must soon be impaired. Jaundice, indigestion, loss of apperite, and a wasting of the whole body, seldom fail to be the consequence of a viriated state of the liver or obstructions of the bile.

Few diseases prove more fatal to the studious than consumptions of the lungs. It has already been observed, that this organ cannot be duly expanded in those who do not take proper exercise; and where that is the case, obstructions and adhesions will ensue. Not only want of exercise, but the posture in which studious persons generally fit, is very hartful to the lungs. Those who read or write much are ready to contract a habit of bending forwards, and often press with their breast upon a table or bench. This posture cannot fail to hurt their lungs.

The functions of the heart may likewise by this means be injured. I remember to have feen a man opened, whose pericardium adhered to the breast-hone in such a manner as to obstruct the motion of the heart, and occasion his death. The only probable canse that could be affigned for this fingular symptom was, that the man, whose business was writing, used constantly to sit in a bending posture, with his breast pressing upon the edge of a plain table.

No person can enjoy health who does not properly digest his food. But intense thinking and inactivity never fail to weaken the powers of direction. Hence the humours become crude and viriated, the folids weak and relaxed, and the whole constitution goes to

Long and intense thinking often occasions grievous head-achs, which bring on vertigoes, apoplexies, palfies, and other fatal dif-The best way to prevent these is, never to study too long at one time, and to keep the body regular, either by proper food or

taking frequently a little of some opening medicine.

Those who read or write much are often afflicted with fore eyes. Studying by candle-light is peculiarly hurtful to the fight. This ought to be practifed as feldom as possible. When it is unavoidable the eyes should be shaded, and the head should not be held too low. When the eves are weak or painful, they should be bathed every night and morning in cold water, to which a little brandy may be added.

It has already been observed, that the excretions are very defective in the studious. The dropfy is often occasioned by the retention of those humours which ought to be carried off in this way. person may observe, that sitting makes his legs swell, and that this goes off by exercise; which clearly points out the method of prevention.

Fevers, especially of the nervous kind, are often the effect of Nothing effects the nerves fo much as intense thought in a manner unhinges the whole human frame, and not only hurte

the vital motions, but diforders the mind itself. Hence a delirium, melancholy, and even madness, are often the effect of close application to study. In fine, there is no difease which can proceed either from a bad state of the humours, a detect of the usual secretions, or a debility of the nervous system, which may not be induced by in-

tense thinking.

But the most afflicting of all the diseases which attack the studious is the hypocondriac. This disease seldom fails to be the companion of deep thought. It may rather be called a complication of maladies than a single one. To what a wretched condition are the best of men often reduced by it! Their strength and appetite fail; a perpetual gloom hangs over their minds; they live in the constant dread of death, and are continually in search of relief from medicine, where, alas! it is not to be found. Those who labour under this disorder, though they are often made the subject of ridicule,

justly claim our highest sympathy and compassion.

Hardly any thing can be more preposterous than for a person to make study his sole business. A mere student is seldem an useful member of society. He often neglects the most important duties of life, in order to pursue studies of a very trisling nature. Indeed it rarely happens, that any useful invention is the effect of mere study. The farther men dive into prosound researches, thy generally deviate the more from common sense, and too often lose sight of it altogether. Prosound speculations, instead of making men wifer or better, generally render them absolute sceptics, and overwhelm them with doubt and uncertainty. All that is necessary for man to know, in order to be happy, is easily obtained; and the rest, like the forbidden fruit, serves only to increase his misery.

Studious persons, in order to relieve their minds, must not only discontinue to read and write, but engage in some employment or diversion, that will so far occupy the thought as to make them forget the business of the closet. A solitary ride or walk are so far from relaxing the mind, that they rather encourage thought. Nothing can divert the mind when it gets into a train of serious thinking, but attention to subjects of a more trivial nature. These prove a kird of play to the mind, and consequently relieve it.

Learned men often contract a contempt for what they call trifling company. They are ashamed to be seen with any but philosophers. This however is no proof of their being philosophers themselves. No man deserves that name who is ashamed to unbend his mind, by associating with the cheerful and gay. Even the society of children will relieve the mind, and expel the gloom which application to study is soo apt to occasion.

As studious people are necessarily much within doors, they should make choice of a large and well aired place for study. This would

not only prevent the bad effects which attend confined air, but would cheer the spirits, and have a most happy insluence both on the body and mind. It is said of Euripides the tragedian, that he used to retire to a dark cave to compose his tragedies, and of Demosthenes the Grecian orator, that he chose a place for study where nothing could either be heard or seen. With all deference to such venerable names, we cannot help condemning their taste. A man may surely think to as good purpose in an elegant apartment as in a cave; and may have as happy conceptions where the all-cheering rays of the sun render the air wholesome, as in places where they never enter.

Those who read or write much should be very attentive to their posture. They ought so sit and stand by turns, always keeping as nearly in an erect posture as possible. Those who dictate, may do it walking. It has an excellent effect frequently to read and speak aloud. This not only exercises the lungs, but almost the whole body. Hence studious people are greatly benefited by delivering discourses in public. Public speakers, indeed, sometimes hurt themselves by overacting their part; but this is their own fault.

The martyr to mere vociferation merits not our sympathy.

The morning has, by all medical writers, been reckoned the best time for study. It is so. But it is also the most proper season for exercise, while the stomach is empty, and the spirits restricted with sleep. Studious people should therefore sometimes speud the morning in walking, riding, or some manly diversions without doors. This would make them return to sludy with greater placity, and would be of more service than twice the time after their spirits are worn out with satigue. It is not sufficient to take diversion only when we can think no longer. Every studious person should make it a part of his business, and should let nothing interrupt his hours of recreation more than those of study.

Music has a very happy effect in relieving the mind when satigued with study. It would be well if every studious person were so far acquainted with that science as to amuse himself after severe thought, by playing such cheerful airs as have a tendency to raise

the spirits, and inspire checifulness and good humour.

It is a reproach to learning, that any of her voteries, to relieve the mind after study, should betake themselves to the use of strong liquors. This indeed is a remedy; but it is a desperate one, and always proves destructive. Would such persons, when their spirits are low, get on horseback, and ride ten or a dozen miles, they would find it a more effectual remedy than any cordial medicine in the apothecary's shop, or all the strong liquors in the world.

The following is my plan, and I cannot recommend a better to others. When my mind is fatigued with fludy, or other ferious bu-

finels, I mount my horse, and ride ten or twelve miles into the country, where I spend a day, and sometimes two, with a cheerful friend; after which I never fail to return to town with new vigor, and to pursue my studies or business with fresh alacrity.

It is much regreted, that learned men, while in health, pay so little regard to these things! There is not any thing more common than to see a miserable object over-run with nervous diseases, bathing, walking, riding, and in a word, doing every thing for health after it is gone; yet if any one had recommended these things to him by way of prevention, the advice would, in all probability, have been treated with contempt, or, at least, with neglect. Such is the weakness and folly of mankind, and such the want of foresight, even in those who ought to be wifer than others!

With regard to the diet of the studious, we see no reason why they should abstain from any kind of food that is wholesome, provided they use it in moderation. They ought, however, to be sparing of every thing that is windy, rancid, or hard of digestion.—Their suppers should always be sight, or taken soon in the evening. Their drink may be water, fine malt liquor, not too strong, good cider, wine and water, or, if troubled with acidities, water mixed

with a little brandy, rum, or any other genuine spirit.

We shall only observe, with regard to those kinds of exercise which are most proper for the studious, that they should not be too violent, nor ever carried to the degree of excessive fatigue. They ought likewise to be frequently varied so as to give action to all the different parts of the body; and should, as often as possible, be taken in the open air. In general, riding on horse-back, walking, working in a garden, or playing at some active diversions, are the best.

We would likewise recommend the use of the cold bath to the studious. It will, in some measure, supply the place of exercise, and should not be neglected by persons of a relaxed habit, especially in the warm season.

No person ought either to take violent exercise or to study im-

mediately after a full meal.

## C H A P. III.

## OF ALIMENT.

UNWHOLESOME food, and irregularities in diet, occasion many diseases. There is no doubt but the whole constitution of the body may be changed by diet alone. The fluids may be thereby attenuated or condensed, rendered mild or acrimonious,

coagulated or diluted, to almost any degree. Nor are its effects upon the felids less considerable. They may be braced or relaxed, have their sensibility, motions, &c. greatly increased or diminished, by different kinds of aliment. A very small attention to these things will be feelt ient to fliew, how much the prefervation of the health

depends on a proper regimen of the diet.

Nor is an attention to diet necessary for the preservation of health only: it is likewise of importance in the cure of diseases. Every intention in the cure of diferfes, may be answered by diet alone. Its effects, indeed, are not always so quick as those of medicine, but they are generally more lafting: besides, it is neither so disagreeable to the patient, nor fo dangerous as medicine, and is always more easily obtained.

Our intention here is not to inquire minutely into the nature and properties of the various kinds of aliment in use among mankind; nor to thew their effects upon the different constitutions of the human body; but to mark force of the most pernicious errors which people are apt to fall into, with respect both to the quantity and qualities of their food, and to point out their influence upon health.

It is not indeed an easy matter to ascertain the exact quantity of food proper for every age, fex, and constitution: but a scrupulous nicety here is by no means necessary. The best rule is to avoid all extremes. Mankind were never intended to weigh and measure their food. Nature teaches every creature when it has enough; and the calls of thirst and hunger are sufficient to inform them when

more is necessary. Though moderation is the chief rule with regard to the quantity, vet the quality of food merits a farther confideration. There are many ways by which provisions may be rendered unwholesome. Bad feafons may either prevent the ripening of grain, or damage it afterwards. These, indeed, are acts of Providence, and we must submit to them; but surely no punishment can be too severe for those who suffer provisions to speil by hoarding them, on purpose to raise the price, or who promote their own interest by adulterating the necessaries of life\*.

Animal, as well as vegetable food, may be rendered unwholefome, by being kept too long. All animal substances have a con-

<sup>\*</sup> The poor, indeed, are generally the first who suffer by unfound provisions; but the lives of the labouring poor are of great importance to the state: besides, discases occasioned by unwholesome sood often prove infectious, by which means they reach people in every station. It is therefore the interest of all to take care that no spailt provisions of any lind be exposed to fale.

frant tendency to putrefaction; and, when that has proceeded too far, they not only become offensive to the senses, but hurtful to health. Diseased animals, and such as die of themselves, ought never to be enten. It is a common practice, however, in some grazing countries, for servants and poor people to cat such animals as die of any disease, or are killed by accident. Poverty, indeed, may oblige people to do this; but they had better eat a smaller quantity of what is sound and wholesome: it would both afford a better nourishment, and be attended with less danger.

The injunctions given to the Jews, not to eat any creature which died of itfelf, feem to have a strict regard to health; and ought to be observed by Christians as well as Jews. Animals never die themfelves without some previous disease; but how a diseased animal should be wholesome food, is inconceivable: even those which die by accident must be hurtful, as their blood is mixed with the sless.

and foon turns putrid.

Animals which feed grofsly, as tame ducks, logs, &c. are neither so easily digested, nor afford such wholesome nourishment as others. No animal can be wholesome which does not take sufficient exercise. Most of our stalled cattle are crammed with gross food, but not allowed exercise nor free air; by which means indeed they grow fat, but their juices not being properly prepared or assimulated, remain crude, and occasion indigestions, gross humours, and oppression of the spirits, in those who feed upon them.

Animals are often rendered unwholesome by being over-heated. Excessive heat causes a fever, exalts the animal salts, and mixes the blood so intimately with the sless, that it cannot be separated. For this reason, butchers should be severely punished who over-drive their cattle. No person would choose to eat the sless of an animal which had died in a high sever; yet that is the case with all over-drove cattle; and the sever is often raised even to the degree of mad-

nefs.

But this is not the only way by which butchers render meat unwholefame. The abominable cuftom of filling the cellular membranes of animals with air, in order to make them appear fat, is every day practifed. This not only spoils the meat, and renders it unfit for keeping, but is such a dirty trick, that the very idea of it is sufficient to disgust a person of any delicacy at every thing which comes from the shambles. Who can bear the thought of eating meat which has been blown up with air from the lungs of a dirty fellow, perhaps labouring under the very worst diseases?

Butchers have likewife a method of filling the cellular membranes of animals with blood. This makes the meat feem fatter, and likewife weigh more, but is notwithstanding a very pernicious cuftom, as it both renders the meat unwholesome and unfit for keeping.

I seldom see a piece of meat from the shambles, where the blood is not disfused through the cellular texture. I shall not say that this is always the effect of design; but I am certain it is not the cate with animals that are killed for domestic use, and properly blooded. Veal seems to be most seequently spoilt in this way. Perhaps that may in some measure be owing to the practice of carrying calves from a great distance to market, by which means their tender sich

is bruiled, and many of their veffels burft.

No people in the world eat such quantities of animal food as the English, which is one reason why they are so generally tainted with the scurvy, and its numerous train of consequences, indigestion, low spirits, hypocondriacism, &c. Animal food was forely defigned for man, and with a proper mixture of vegetables, it will be found the most wholesome; but to gorge beef, mutton, pork, sish, and sowl, twice or thrice a day, is certainly too much. All who value health ought to be contented with making one meal of sless in the twenty-four hours, and this ought to consist of one kind only.

The most obstinate sourcy has often been cured by a vegetable diet; nay, milk alone will frequently do more in that dise se than any medicine. Hence it is evident, that if vegetables and milk were more used in diet, we should have less source, and his wife sewer putrid and inflammatory severs. Fresh vegetables, indeed, come to be daily more used in diet; this laudable practice we hope will con-

tinue to gain ground.

Our aliment ought neither to be too moist nor too dry. Moist aliment relaxes the folids, and renders the body feeble. Thus we fee females, who live much on tea and other watery diet, generally become weak, and unable to digest folid food; hence proceed hysterics, and all their dreadful consequences. On the other hand, food that is too dry, renders the solids in a manner rigid, and the humours viscid, which disposes the body to inflammatory severs.

icu vies, and the like.

Much has been faid on the ill effects of tea in diet. They are, no doubt, numerous; but they proceed rather from the imprulent use of it, than from any bad qualities in the tea itself. Tea is now the universal breakfast in this part of the world; but the morning is surely the most improper time of the day for drinking it. Most delicate persons, who, by the bye, are the greatest tea drinking, cannot eat any thing in the morning. If such persons, after instinction or twelve hours, drink four or five days of green tea, milliout eating almost any bread, it must hart them. Good tea, then in a mederate quantity, not too strong, nor too hot, nor dank upon an empty stomach, will seldom do harm; but it it be bad, which is often the case, or sold stimuted in the local of a tid in the must have many its effects.

The arts of cookery render many things unwholeform, which are not so in their own nature. By jumbling together a number of different ingredients, in order to make a poignant sauce, or rich soup, the composition proves almost a potion. All high sectioning, pickles, &c. are only incentives to luxury, and never sail to hurt the stomach. It were well for mankind, if cookery, as an art, were entirely prohibited. Plain roasting or boiling is all that the stomach requires. These alone are sufficient for people in health, and the sick have still less need of a cook.

The liquid part of our aliment likewise claims our attention.— Water is not only the basis of most liquors, but also composes a great part of our solid food. Good water must therefore be of the greatest importance in diet. The best water is that which is most pure, and free from any mixture of foreign bodies. Water takes up parts of most bodies with which it comes into contact; by this means it is often impregnated with metals or minerals of a hurful or poisonous nature. Hence the inhabitants of some hilly countries have peculiar diseases, which in all probability proceed from the water. Thus the people who live near the Alps in Switzerland, and the inhabitants of the Peak of Derby, in England, have large tumours or wens on their necks. This is generally imputed to the snow water; but there is more reason to believe it is owing to the minerals in the mountains through which the waters pass.

When water is impregnated with foreign bodies, it generally appears by its weight, colour, take, finell, heat, or fome other level-ble quality. Our business, therefore, is to choose such water, for common use, as is lightest, and without any particular colour, take, or smell. In most places of Britain the inhabitants have it in their power to make choice of their water; and few things would contribute more to the health than a dre attention to this article. But mere indolence often induces people to make use of the water that

is neared to them, without confidering its qualities.

Before water is brought into great towns, the flrichest attention ought to be paid to its qualities, as many diffeafes may be occasioned

or aggravated by bad water; and when once it has been procuted at a great expense, people are unwilling to give it up.

The common methods of rendering water clear by filtration, or first, by exposing it to the sun and air, &c. are so generally known, that it is unnecettary to spend time in explaining them. We shall only, in general, advise all to avoid waters which stagnete long in small lakes, ponds, or the like, as such waters often become patrid, by the corruption of animal and vegetable bodies with which they abound. Even cattle often suffer by drinking, in dry seasons, water which has stood long in small refervairs, without being supplied by

springs, or freshened with showers. All wells ought to be kept

clean, and to have a free communication with the air.

As fermented liquors, notwithflanding they have been exclaimed against by many writers, still continue to be the common drink of almost every person who can afford them; we shall rather endeavour to askid people in the choice of these liquors, than pretend to condemn what custom has so firmly established. It is not the moderate use of sound fermented liquors which harts mankind; it is excess,

and using such as are ill prepared or vitiated.

Fermented liquors, which are too ftrong, hurt digeftion; and the body is fo far from being ftrengthened by them, that it is weak-ened and relaxed. Many imagine that hard labour could not be supported without drinking strong liquors; this is a very erroneous notion. Men who never taste strong liquors are not only able to endure more fatigue, but also live much longer, than those who use them daily. But, suppose strong liquors did enable a man to domore work, they must nevertheless waste the powers of life, and occasion premature old age. They keep up a constant sever, which exhausts the spirits, instances the blood, and disposes the body to numberless diseases.

But fermented liquors may be too weak as well as too strong: When that is the case, they must either be drank new, or they become four and dead: When such liquors are drank new, the fermentation not being over, they generate air in the bowels, and occasion statuleucies; and, when kept till stale, they turn sour on the stomach, and hurt digestion. For this reason all malt-liquors, cider, &c. ought to be of such strength as to keep till they be ripe, and then they should be used. When such liquors are kept too long, though they should not become four, yet they generally con-

tract a hardness which renders them unwholesome.

All families, who can, ought to prepare their own liquors. Since preparing and vending of liquors became one of the most general branches of business, every method has been tried to adulterate them. The great object both to the makers and venders of liquor is, to render it intoxicating, and give it the appearance of age. But it is well known that this may be done by other ingredients than those which ought to be used for making it strong. It would be imprindent even to name those things which are daily made use of to render liquors heady. Suffice it to say, that the practice is very common, and that all the ingredients used for this purpose are of a narcotic or stupefactive quality. But as all opiates are poisonous, it is easy to see what must be the consequence of their general use. Though they do not kill suddenly, yet they hurt the nerves, relax and weaken the stomach, and spoil the digestion.

Were fermented liquors faithfully prepared, kept to a proper age, and used in moderation, they would prove real bleffings to mankind. But, while they are ill prepared, various ways adulterated, and taken to excess, they must have many pernicious effects.

We would recommend it to families, not only to prepare their own liquors, but likewise their bread. Bread is so necessary a part of diet, that too much care cannot be bestowed in order to have it sound and wholesome. For this purpose, it is not only necessary that it be made of good grain, but likewise properly prepared, and and kept free from all unwholesome ingredients. This, however, we have reason to believe is not always the case with bread prepared by those who make a trade of vending it. Their object is rather to please the eye, than to consult the health. The best bread is that which is neither too coarse nor too sine; well fermented, and made of wheat flour, or rather of wheat and rye mixed together.

To specify the different kinds of aliment, to explain their nature and properties, and to point out their effects in different conflitutions, would far exceed the limits of our design. Instead of a detail of this kind, which would not be generally understood, and of course little attended to, we shall only mention the following easy rules with

respect to choise of aliment.

Perfons whose solids are weak and relaxed, ought to avoid all viscid food, or such things as are hard of digestion. Their diet, however, ought to be nourishing; and they should take sufficient exercise in

the open air.

Such as abound with blood should be sparing in the use of every thing that is highly nourishing, as fat meat, rich wines, strong ale, and such like. Their food should consist chiefly of bread and other vegetable substances: and their drink ought to be water, whey, or small beer.

Fat people should not eat freely of oily nourishing diet. They ought frequently to use raddish, garlie, spices, or such things as are heating and promote perspiration and urine. Their drink should be water, coffee, tea, or the like; and they ought to take much exercise and little sleep.

Those who are too lean must follow an opposite course.

Such as are troubled with acidities, or whose food is apt to sour on the stomach, should live much on animal food, and those who are afflicted with hot alkaline eructations, ought to use a diet con-

fifting chiefly of acid vegetables.

People who are affected with the gout, low spirits, hypocondriac or hysteric disorders, ought to avoid all flatulent food, every thing that is viscid, or hard-of digestion, all salted or smoke-dried provisions, and whatever is anstere, acid, or apt to turn som the

Stornach. Their food found be light, spare, cool and of an open-

ing nature.

The diet ought not only to be fuited to the age and conflictation, but also to the no near or life; a sedentary or studious person should live more sparingly then one who I bours hard without doors. Many kinds of seed will nourish a peasent very well which would be almost indigestable to a citizen; and the latter will live upon a diet on which the server would starve.

Diet ought not to be too uniform. The constant use of one kind of food might have fune ball essects. Nature teaches us this, by the great variety of eliment which she has provided for man, and like tile by giving him an appetite for different kinds of food.

Those who I bony under any particular disease, ought to avoid such aliments as have a tendency to increase it; for example, a gouty person should not include in rich wines, strong soups, or gravies, and should avoid all acids. One who is troubled with the gravel ought to shun all acides and a tringent eliments; and those who are scorbutic should be sparing in the tile of solded provisions, &c.

In the fielt period of line, our feed ought to be light, but nourishing, and frequently taken. Food that is solid, with a sufficient degree of tenacity, is most proper for the state of manhood. The diet suited to the last period of life, when nature is upon the decline, approaches nearly to that of the first. It should be lighter and more succulent than that of vigorous age, and likewise more frequently taken.

It is not only necessary for health that our diet be wholesome, but also that it be taken at regular periods. Some imagine that long fasting will atone for excess; but it is, instead of mending the matter generally makes it worse. When the stomach and intestines are over distended with tood, they lose their proper tone, and, by long sasting, they become weak, and instated with wind. Thus, either gluttony or fasting destroys the powers of digestion.

The frequent repetition of aliment is not only necessary for repairing the continual waste of our bodies, but likewise to keep the stude found and sweet. Our humours, even in the most healthy state, have a constant tendency to purrefaction, which can only be prevented by from the pulses of fresh nourishment; when that is wanting too long, the putrefaction often proceeds so far as to occasion very dangerous severs. From hence we may learn the necessity of regular med. No person can enjoy a good state of health, whose vessels are either frequently over charged, or the humours long deposited of fresh supplies of chyle.

Long follows is extremely hurtful to young people; it not only violates their box and, but prevents their growth. Nor is it left injurious to the end. Left potential the decline of life, are

afflicted with wind: this complaint is not only increased, but even rendered dangerous, and often fatal, by long fasting. Old people, when their stomachs are empty, are frequently seized with giddiness, head-aches, and faintness. These complaints may generally be removed by a piece of bread and a glass of wine, or taking any other solid sood; which plainly points out the method of preventing them.

It is more than probable, that many of the sudden deaths, which happen in the advanced periods of life, are occasioned by fasting too long, as it exhausts the spirits, and fills the bowels with wind; we would therefore advise people, in the decline of life, never to allow their stomachs to be too long empty. Many people take nothing but a few cups of tea and a little bread, from nine o'clock at night till two or three next afternoon. Such may be said to fast almost three-fourths of their time. This can hardly fail to ruin the appetite, vitiate the humours, and sill the bowels with wind; all which might be prevented by a solid breakfast.

It is a very common practice to eat a light breakfast and a heavy supper. This custom ought to be reversed. When people sup late, their supper should be very light; but the breakfast ought always to be solid. If any one eats a light supper, goes soon to bed, and arises by times in the morning, he will be sure to find an appetite for

his breakfast, and he may freely indulge it.

The strong and healthy do not indeed suffer so much from fasting as the weak and delicate; but they run great hazard from its opposite, viz. repletion. Many diseases, especially severs, are the effect of a plethora, or too great fulness of the vessels. Strong people, in high health, have generally a great quantity of blood and other humours. When these are suddenly increased, by an overcharge of rich and nourishing diet, the vessels become too much distended, and obstructions and inflammations ensue. Hence so many people are seized with inflammatory and eruptive severs, apoplexies, &c. after a feast or debauch.

All great and sudden changes in diet are dangerous. What the stomach has been long accustomed to digest, though less wholesome, will agree better with it than food of a more salutary nature to which it has not been used. When therefore a change becomes necessary, it ought always to be made gradually; a sudden transition from a poor and low, to a rich and luxurious diet, or the contrary, might so disturb the functions of the body as to endanger health, or even to occasion death itself.

When we recommend regularity in diet, we would not be underflood as condemning every small deviation from it. It is next to impossible for people at all times to avoid some degree of excess, and living too much by rule might make even the smallest deviation dangerous. It may therefore be prudent to vary a little, fometimes taking more, fometimes left, than the usual quantity of meat and drink, provided always that a due regard be had to moderation.

#### C H A P. IV.

#### OF AIR.

NWHOLESOME air is a very common cause of diseases. Few are aware of the danger arising from it. People generally pay some attention to what they eat or drink, but seldom regard what goes into the lungs, though the latter proves often more

fuddenly fatal than the former.

Air, as well as water, takes up parts of most bodies with which it comes in contact, and is often so replenished with those of a noxious quality, as to occasion immediate death. But such violent effects seldom happen, as people are generally on their guard against them. The less perceptible influences of bad air prove more generally hurtful to mankind; we shall therefore endeavour to point out some of these, and to show whence the danger chiefly arises.

Air may become noxious many ways. Whatever greatly alters its degree of heat, cold, moifture, &c. renders it unwholesome: for example, that which is too hot dissipates the waterv parts of the blood, exalts the bile, and renders the whole humours adust and thick. Hence proceed bilious and inflammatory fevers, cholera morbus, &c. Very celd air obstructs the perspiration, constringes the folids, and condenses the sluids. It occasions theumatisms, coughs, and catarrhs, with other diseases of the throat and breast. Air that is too moist destroys the elasticity or spring of the solids, induces phlegmatic or lax constitutions, and disposes the body to agues, or intermitting severs, dropsies, &c.

Wherever great numbers of people are crowded into one place, if the air has not a free circulation, it foon becomes unwholefome. Hence it is that delicate perfons are so apt to turn sick or faint in crowded churches, assemblies, or any place where the air is injured

by breathing, fires, candles, or the like.

In great cities so many things tend to contaminate the air, that it is no wonder it proves so fatal to the inhabitants. The air in cities is not only breathed repeatedly over, but is likewise loaded with sulphur, smoke, and other exhalations besides the vapours continually arising from innumerable putrid substances, as dung-hills, slaughter-houses, &c. All possible care should be taken to keep the freets of large towns open and wide, that the air may have a free current through them. They ought likewise to be kept very clean.

Nothing tends more to pollute and contaminate the air of a city than

dirty streets.

It is very common in this country to have church-yards in the middle of populous cities. Whether this be the effect of ancient superstition, or owing to the increase of such towns, is a matter of no consequence. Whatever gave rise to the custom, it is a bad one. It is habit alone which reconciles us to these things; by means of which the most ridiculous, nay pernicious customs, often become sacred. Certain it is, that thousands of putrid carcases, so near the surface of the earth, in a place where the air is confined, cannot said to taint it; and that such air, when breathed into the lungs, must occasion diseases\*.

Burying within churches is a thing still more detestable. The air in churches is seldott good, and the efficivia from putrid carcases must render it still worse. Churches are commonly old buildings with arched roofs. They are seldom open above once a week, are never ventilated by fires nor open windows, and rarely kept clean. This occasions that damp, musty, unwholesome smell which one feels upon entering a church, and renders it a very unsafe place for the weak and valetudinary. These inconveniences might, in a great measure, be obviated, by prohibiting all persons from burying within churches, by keeping the n clean, and permitting a stream of fresh air to pass frequently through them, by opening opposite doors and windowst.

Wherever air stagnates long, it becomes unwholesome. Hence the unhappy persons confined in jails not only contract malignant severs themselves, but often communicate them to others. Nor are many of the holes, for we cannot call them houses, possessed by the poor in great towns, much better than jails. These low dirty habitations are the very lurking places of bad air and contagious diseases. Such as live in them seldom enjoy good health; and their children commonly die young. In the choice of a house, those who have it in their power, ought always to pay the greatest attention to open free air.

The various methods which luxury has invented to make houses close and warm, contribute not a little to render them unwholesome. No house can be wholesome unless the air has a free passage through

<sup>\*</sup> In most eastern countries it was customary to bury the dead at some distance from any town. As this practice, obtained among the Jews, the Greeks, and also the Romans, it is strange that the western parts of Europe should not have followed their example in a custom so truly laudable.

<sup>†</sup> One cannot pass through a large church or cathedral, even in summer, without feeling quite chilly.

it. For which reason houses ought daily to be ventilated, by opening opposite windows, and admitting a current of fresh air into every room. Beds, instead of being made up as soon as people rise out of them, ought to be turned down, and exposed to the fresh air from the open windows through the day. This would expel any noxious vapour, and could not fail to promote the health of the inhabitants.

In hospitals, jails, ships, &c. where that cannot be conveniently done, ventilators should be used. The method of expelling soul, and introducing fresh air, by means of ventilators, is a most salutary invention, and is indeed the most useful of all our modern medical improvements. It is capable of universal application, and is fraught with numerous advantages, both to those in health and sickness. In all places, where numbers of people are crowded together, ventilation becomes absolutely necessary.

Air which stagnates in mines, wells, cellars, &c. is extremely noxious. That kind of air is to be avoided as the most deadly poison. It often kills almost as quick as lightning. For this reason, people should be very cautious in opening cellars that have been long that, or going down into deep wells or pits, especially if they have

been close covered\*.

Many people who have fplendid houses, choose to sleep in small apartments. This conduct is very imprudent. A bed-chamber ought always to be well aired; as it is generally occupied in the night only, when all doors and windows are shut. If a fire be kept in it, the danger from a small room becomes still greater. Numbers have been stiffed when asseep by a fire in a small apartment, which is always hurtful.

Those who are obliged, on account of business, to spend the day

in close towns, ought, if possible, to sleep in the country.

Breathing free air in the night will in some measure, make up for it through the day. This practice would have a greater effect in

preserving the health of citizens than is commonly imagined.

Delicate persons ought, as much as possible, to avoid the air of great towns. It is peculiarly hurtful to the asthmatic and consumptive. Such persons should avoid cities as they would the plague. The hypocondriac are likewise much hurt by it. I have often seen persons so much afflicted with this malady while in town, that it seemed impossible for them to live, who up onbeing removed to the

<sup>\*</sup> We have daily accounts of persons who lose their lives by going down into deep wells and other places where the air stagnates; all these accidents might be prevented by only letting down a lighted candle before them, and stopping when they perceive it go out; yet this precaution, simple a it is, is selsom used.

country were immediately relieved. The same observation holds with regard to nervous and hysteric women. Many people, indeed, have it not in their power to change their fituation in quest of better air. All we can fay to fuch persons is, that they should go as often abroad into the open air as they can, that they should admit fresh air frequently into their houses, and take care to keep them very clean.

It was necessary in former times, for safety, to surround cities, colleges, and even fingle houses, with high walls. These, by obstructing the free current of air, never fail to render such places damp and unwholesome. As such walls are now, in most parts of this country, become ufelefs, they ought to be pulled down, and every method taken to admit a free passage to the air. Proper attention to AIR and CLEANLINESS would tend more to preserve the health of mankind, than all the prescriptions of the faculty.

Surrounding houses too closely with planting of thick woods, likewise tends to render the air unwholesome. Wood not only obstructs the free current of the air, but sends forth great quantities of moist exhalations, which render it constantly damp. Wood is very agreeable at a proper distance from a house, but should never be planted too near it, especially in a flat country. Many of the gentlemen's feats in England are rendered very unwholesome from the great quantity of wood which furrounds them.

Houses situated in low marshy countries, or near large lakes of stagnating water, are likewise unwholesome. Waters which stagnate not only render the air damp, but load it with putrid exhalations, which produce the most dangerous and fatal diseases. Those who are obliged to inhabit marshy countries ought to make choice of the dryest situations they can find, to live generously, and to pay the

strictest regard to cleanliness.

If fresh air be necessary for those in health, it is still more so for the fick, who often lofe their lives for want of it. The notion that fick people must be kept very hot, is so common, that one can hard ly enter the chamber where a patient lies, without being ready to faint, by reason of the hot suffocating smell. How this must effect the fick, any one may judge. No medicine is so beneficial to the fick as fresh air. It is the most reviving of all cordials, if it be administered with prudence. We are not, however, to throw open doors and windows at random upon the fick. Fresh air is to be let into the chamber gradually, and, if possible, by opening the windows of some other apartment.

The air of a fick person's chamber may be greatly freshened, and the patient much revived, by fprinkling the floor, bed, &c. frequently with vinegar, juice of lemon, or any other ftrong vegetable

acid.

In places where numbers of fick are crowded into the fame houle, or, which is often the case, into the same apartment, the frequent admission of fresh air becomes absolutely necessary. Infirmaries, hospitals, &c. are often rendered so noxious, for want of proper ventilation, that the sick run more hazard from them than from the disease. This is particularly the case when putrid severs, dysenta-

ries, and other infectious diseases prevail.

Physicians, furgeons, and others who attend hospitals, ought, for their own fasety, to take care that they be properly ventilated. Such persons as are obliged to spend most of their time amongst the sick, run great hazard of being themselves insected when the air is bad. All hospitals, and places of reception for the sick, ought to have an open situation, at some distance from any great town, and such patients as labour under any insectious disease, ought never to be suffered to come near the rest\*.

### CHAP. V.

#### OF EXERCISE.

ANY people look upon the necessity man is under of earning his bread by labour, as a curse. Be this as it may, it is evident from the structure of the body, that exercise is not less necessary than good food for the preservation of health: those whom poverty obliges to labour for daily bread, are not only the most healthy, but generally the most happy part of mankind. Industry seldom fails to place them above want, and activity serves them instead of physic. This is peculiarly the case with those who live by the culture of the ground. The great increase of inhabitants in infant colonies, and the longevity of such as follow agriculture every where evidently prove it to be most healthful as well as the most useful employment.

The love of activity shews itself early in man. So strong is this principle, that a healthy youth cannot be restrained from exercise, even by the sear of punishment. Our love of motion is surely a strong proof of its utility. Nature implants no disposition in vain. It seems to be a catholic saw throughout the whole animal creation, that no creature, without exercise, should enjoy health, or be able

<sup>\*</sup> A year seldom passes that we do not hear of some hospital physician or surgeon having lost his life by an hospital fever caught from his patients. For this they have themselves alone to blame. Their patients are either in an improper situation, or they are too careless with regard to their own conduct.

to find subfishence. Every creature, except man, takes as much of it as necessary. He alone, and such animals as are under his direction,

deviate from this original law, and they fuffer accordingly.

Inactivity never fails to induce an universal relaxation of the folids, which disposes the body to innumerable diseases. When the solids are relaxed, neither the digestion, nor any of the secretions, can be duly performed. In this case the worst consequences must ensure. How can persons who loll all day in easy chairs, and sleep all night on beds of down, fail to be relaxed? Nor do those greatly mend the matter, who never stir abroad but in a coach, sedan, or such like. These elegant pieces of luxury are become so common, that the inhabitants of great towns seem to be in some danger of losing the use of their limbs altogether. It is now below any one to walk, who can afford to be carried. How ridiculous would it seem, to a person unacquainted with modern luxury, to behold the young and healthy, swinging along on the shoulders of their fellow-creatures! or to see a fat carcase, over-run with diseases occasioned by inactivity, dragged through the streets by half a dozen horses.

Glandular obstructions, now so common, generally proceed from inactivity. These are the most obstinate of maladies. So long as the liver, kidnies, and other glands, duly perform their functions, health is seldom impaired; but, when they sail, nothing can restore it. Exercise is almost the only cure for glandular obstructions; indeed, it does not always succeed as a remedy; but there is reason to believe that it would seldom sail to prevent these complaints, were it used in due time. One thing is certain, that amongst those who take sufficient exercise, glandular diseases are very little known, whereas the indolent and inactive are seldom free from them.

Weak nerves are the constant companions of inactivity. Nothing but exercise and open air can brace and strengthen the nerves or prevent the endless train of diseases which proceed from a relaxed state of these organs. We seldom hear the active or laborious complain of nervous diseases; these are reserved for the sons of case and affluence. Many have been completely cured of these disorders by being reduced, from a state of opulence, to labour for their daily bread. This plainly points out the sources from whence

<sup>\*</sup> It is not necessity, but fashion, which makes the use of carriages so common. There are many people who have not exercise enough to keep their humours wholesome, who yet dare not venture to make a visit to their next neighbours, but in a coach or sedan, less they should be looked down upon. Strange that men should be such soots, as to be laughed out of the use of their limbs, or to throw away their health, in order to gratify a piece of wanity, or to comply with a ridiculous sashion!

nervous difeases flow, and the means by which they may be pre-

It is absolutely impossible to enjoy health, where the perspiration is not duly carried on; but that can never be the case where exercise is neglected. When the matter which ought to be thrown off by perspiration is retained in the body, it vitiates the humours, and occasions the gout, severs, rheumatism, &c. Exercise alone would prevent many of those diseases which cannot be cured, and

would remove others where medicine proves ineffectual.

A late author\*, in his excellent treatife on health, says that the weak and valetudinary ought to make exercise a part of their religion. We would recommend this, not only to the weak and valetudinary, but to all those whose business does not oblige them to take sufficient exercise, as sedentary artificers\*, shop-keepers, studious persons, &c. Such ought to use exercise as regularly as they take food. This might generally be done without any interruption to

business or real loss of time.

No piece of indolence hurts the health more than the modern custom of lying a-bed too long in the morning. This is the general practice in great towns. The inhabitants of cities feldom rife, before eight or nine o'clock; but, the morning is undoubtedly the best time for exercise, while the stomach is empty and the body refreshed with sleep. Besides, the morning air braces and strengthens the nerves, and, in some measure, answers the purposes of a cold bath. Let any one who has been accustomed to lie a-bed till eight or mine o'clock, rise by six or seven, spend a couple of hours in walking, riding, or any active diversion without doors, and he will find his spirits cheerful and serene through the day, his appetite keen, and his body braced and strengthened. Custom soon renders

\* Cheyne.

t Sedentary occupations ought chiefly to be followed by women. They bear confinement much better than men, and are fitter for every kind of business which does not require much strength. It is ridiculous enough to see a lusty sollow making pins, needles, or watch-wheels, while many of the laborious parts of husbandry are carried on by the other sex. The sact is, we want men for laborious employments, while one half of the other sex are rendered useless for the want of occupations, suited to their strength, &c. Were girls beed to mechanical employments, we should not see such numbers of them prostitute themselves for bread, nor find such a want of men for the important purposes of ravigation, agriculture, &c. An eminent silk manufacturer told me, that he found women answer better for that lustings than men; and that he had lately taken a great many girls apprentices as hill weavers. I hope his example will be followed by many of ers.

early rifing agreeable, and nothing contributes more to the preferva-

The inactive are continually complaining of pains of the stomach, flatulencies, indigestions, &c. These complaints, which pave the way to many others, are not to be removed by medicines. They can only be cured by a vigorous course of exercise, to which

indeed they feldom fail to yield.

Exercise, if possible, ought always to be taken in the open air. When that cannot be done, various methods may be contrived for exercising the body within doors, as the dumb bell, dancing, sencing, &c. It is not necessary to adhere strictly to any particular kind of exercise. The best way is to take them by turns, and to use that longest which is most suitable to the strength and condituation. Those kind of exercises which give action to most of the bodily organs, are always to be preferred, as walking, running, ri-

ding, digging, swimming, and such like.

It is much to be regretted, that active and manly diversions are now so little practised. Diversions make people take more exercise than they otherwise would do, and are of the greatest service to such as are not under the necessary of labouring for their bread. As active diversions lose ground, those of a sedentary kind seem to prevail. Sedentary diversions are of no other use but to consume time. Instead of relieving the mind, they often require more thought than either study or business. Every thing that induces people to sit still, unless it be some necessary employment, ought to be avoided.

The diversions which afford the best exercise are, hunting, shooting, playing at cricket, hand-ball, golff\*, &c. These exercise the limbs, promote perspiration, and the other secretions. They likewise strengthen the lungs, and give firmness and agility to the whole

body.

Such as can, ought to spend two or three hours a day on horse-back; those who cannot ride, should employ the same time in walking. Exercise should never be continued too long. Over satigue prevents the benefit of exercise, and instead of strengthening the body tends to weaken it.

Every man thould lay himself under some fort of necessity to take exercise. Indolence, like other vices when indulged, gains ground, and at length becomes agreeable. Hence many who were fond of

<sup>\*</sup> Golff is a diversion very common in North Britain. It is well calculated for exercifing the body, and may always be taken in such moderation, as neither to over-heat nor fatigue. It has greatly the preference over cricket, tennis, or any of those games which cannot be played witheut vicknice.

exercise in the early part of life, become onite averse from it afterwards. This is the case of most hypecondriac and gouty people,

which renders their diseases in a great measure incurable.

In some countries laws have been made, obliging every man, of whatever rank, to learn some mechanical employment. Whether such laws were designed for the preservation of health, or the encouragement of manufactures, is a question of no importance.—Certain it is, that if gentlemen were frequently to amuse and exercise themselves in this way, it might have many good effects. They would at least derive as much honour from a sew masterly specimens of their own workmanship, as from the character of having ruined most of their companions by gaming or drinking. Besides, men of leisure, by applying themselves to the mechanical arts, might improve them, to the great benefit of society.

Indolence not only occasions diseases, and renders men useless to society, but promotes all manner of vice. To say a man is idle, is little better than to call him vicious. The mind, if not engaged in some useful pursuit, is constantly in quest of ideal pleasures, or impressed with the apprehension of some imaginary evil. From these sources proceed most of the miseries of mankind. Certainly man was never intended to be idle. Inactivity frustrates the very design of his creation; whereas an active life is the best guardian of vir-

tue, and the greatest preservative of health.

#### C H A P. VI.

#### OF SLEEP AND CLOTHING.

SLEEP, as well as diet, ought to be duly regulated. Too little fleep weakens the nerves, exhaufts the fpirits, and occasions difeases: and too much renders the mind dull, the body gross, and disposes to apoplexies, lethargies, and other complaints of a similar nature. A medium ought therefore to be observed; but this is not easy to fix. Children require more sleep than grown persons, the laborious than the idle, and such as cat and drink freely, than those who live abstemiously. Besides, the real quantity of sleep cannot be measured by time: as one person will be more refreshed by sive or fix hours sleep, than another by eight or ten.

Children may always be allowed to take as much fleep as they pleafe; but, for a lults, fix or feven hours is certainly fusicient, and no one should exceed eight. Those who lie a-bed more than eight hours may sumber, but they can hardly be said to steep; such generally toss and dream away the fore part of the night, sink to rest towards morning, and dose till noon. The best way to make sleep

found and refreshing, is to rise betimes. The custom of lying a-bed for nine or ten hour, not only makes the sleep less refreshing, but

relaxes the folids, and greatly weakens the conditiution.

Nature points out night as the proper feafon for sleep. Nothing more certainly destroys the constitution than night watching. It is a great pity that a practice so destructive to health should be so much in fashion. How quickly the want of rest in due season will blast the most blooming complexion, or ruin the best constitution, is evident, from the ghastly countenances of those who, as the phrase is, turn day into night, and night into day.

To make fleep refreshing, the following things are requisite: first, to take sufficient exercise in the open air; to avoid strong tea or coffee; next, to eat a light supper; and lastly, to lie down with

a mind as cheerful and ferene as possible.

It is certain that too much exercife will prevent fleep, as well as too little. We foldom however hear the active and laborious complain of reffless nights. It is the indelent and flothful who generally have these complaints. Is it any wonder that a bed of down should not be refreshing to a person who sits all day in an easy chair? A great part of the pleasure of life consists in alternate rest and motion; but they who neglect the latter can never relish the former. The labourer enjoys more true luxury in plain food and sound sleep, than is to be found in sumptuous tables and downy pillows, where exercise is wanting.

That light suppers cause sound sleep, is true even to a proverb. Many persons, if they exceed the least at that meal, are sure to have uneasy nights: and, if they fall asseep, the load and oppression on their stomach and spirits occasion frightful dreams, broken and disturbed repose, the night-mare, &c. Were the same persons to go to bed with a light supper, or sit up till that meal was pretty well digested, they would enjoy sound sleep, and rise restricted and cheerful. There are indeed some people who cannot sleep unless they have eat some solid food at night, but this does not imply the necessity of a heavy supper; besides, these are generally persons who have accustomed themselves to this method, and who do not take a sufficient quantity of solid food and exercise.

Nothing more certainly disturbs our repose than anxiety. When the mind is not at ease, one seldom enjoys found sleep. The greatest of human blessings slies the wretched, and visits the happy, the cheerful, and the gay. This is a sufficient reason why every man should endeavour to be as easy in his mind as possible when he goes to rest. Many, by indulging grief and anxious thought, have banished found sleep so long, that they could never afterwards enjoy it.

Sleep, when taken in the fore part of the night, is generally rockand must refreshing. Whether this be the effect of habit or not, is hard to fay: but as most people are accustomed to go early to bed when young, it may be presumed that sleep, at this season, will prove most refreshing to them ever after. Whether the fore part of the night be best for sleep or not, surely the sote part of the day is fittest both for business and anusement. I hardly ever knew an early rifer who did not enjoy a good state of health\*.

The clothing onght to be fuited to the climate. Custom has no doubt a very great influence in this article; but no custom can ever change the nature of things so far as to render the same clothing sit for an inhabitant of Nova Zembla and the island of Jamaica. It is not indeed necessary to observe an exact proportion between the quantity of clothes we wear, and the degree of latitude which we inhabit; but, at the same time, proper attention ought to be paid to it, as well as to the openies of the country, the frequency and violence of storms, &c.

In youth, while the blood is hot and perspiration free, it is less necessary to cover the body with a great quantity of clothes; but in the decline of life, when the skin becomes rigid and the humours more cool, the clothing thould be increased. Many discoses in the latter period of life proceed from a desect of perspiration; these

may, in fome measure, be prevented by a suitable addition to the clothing, or by wearing such as are better calculated for promoting the discharge from the skin, as clothes made of cotton, flannel, &c.

The clothing ought likewife to be fuited to the feafen of the year. Clothing may be warm enough for fummer, which is by no means sufficient for the winter. The greatest caution, however, is necessary in making these changes. We ought neither to put off our winter clothes too soon, nor to wear our summer ones too long. In this country, the winter often sets in very early with great rigour, and we have often cold weather even after the commencement of the summer months. It would likewise be prudent not to make the change all at once, but to do it gradually. And indeed the change of apparel in this climate ought to be very inconsiderable, especially among those who have passed the meridian of lifet.

Clothes often become hurtful by their being made subservient to the purposes of pride or vanity. Mankind in all ages seem to have

I had colds kell more than plagues, is an old observation; and with regard to this country, it holds strictly true. Every serson of

<sup>\*</sup> Men of every occupation, and in every fituation of life, have lived to a good old age; nay, fome have enjoyed this hleffing whose plan of viving was by no seams regular; but it confiss with observation, that all very old men have been early rijers. This is the only circumsance attending longevity, to which I never knew an exception.

confidered clothes in this view; accordingly their fashion and figure have been continually varying, with very little regard either health, the climate, or conveniency: a farthingale, for examp may be very necessary in hot foothern climates, but forely nothers can be more risiculous in the cold regions of the north.

Even the human shape is often attempted to be mended by do for and those who know no better believe that mankind would be easth: strous without its assistance. All attempts of this nature are eath too pernicions. The most destructive of them in this country seem as of squeezing the stomach and bowels into as narrow a corposition, to procure, what is falsely called a fine shape construction practice the action of the stomach and bowels, the mee folids and heart and lungs, and almost all the vital functions, are vital sunctioned proceed indigestions, syncopes, or fainting sits, cd and well; sumptions of the lungs, and other complaints so come Intemper-

The feet often fuffer by preffure. How a small foot ecretions irreckoned genteel, I will not pretend to say; but certain diseases, this notion has made many persons lame. Almost nir animals as mankind are troubled with corns: this disease is soldo soisture and occasioned but by strait shoes. Corns are not only very try of either but by rendering people unable to walk, they may likewal, nay desidered as the termote cause of other diseases.

The fize and figure of the shoe ought certainly to be petites and the foot. In children the feet are as well shaped as the sch entitles the motion of the toes as free and easy as that of the singers petite will persons in the advanced periods of life are able to make at their toes. They are generally, by narrow shoes, squeezed as, for heap, and often laid over one another in such a manner as to be lual, dered altogether incapable of motion. Nor is the high heel less h tion

discernment, however, will perceive, that most of the colds which prove for destructive to the inhabitants of Britain are owing to their imprudence in changing clothes. A few warm days in March or April induce them to throw off their winter garments, without considering that our most penetrating colds generally happen in the spring.

\* This madness seems to have pervaded the minds of mothers, in eve-

\* This madness seems to have pervaded the minds of mothers, in every age and country. Terence, in his comedy of the Lunuch, ridicules the Roman matrons for attempting to mend the shape of their daugh-

† We often fee persons, who are rendered quite lame by the nails of their toes having grown into the fiesh, and frequently hear of mortifications proceeding from this cause. All these, and many other inconveniences attending the feet, must be imputed folely to the use of short and strait shoes.

is will than the narrow toe. A lady may feem taller for walking on provitiptoes, but the never will walk well in this manner. It thrains the joints, difforts her limbs, makes her ft-op, and utterly deftroys fitted or case and gracefulness of motion: it is entirely owing to shoes early high heels and narrow toes, that not one female in ten can be walk well.

The xing on the clothes, due care should be taken to avoid all doubt a vidages. Garters, buckles, &c. when drawn too tight, not change the out the free oldien and use of the parts about which they for an inhat, but likewise obstruct the circulation of the blood, which is not indeed equal nourishment and growth of these parts, and occaquantity of its diseases. Tight bandages about the neck, as slocks, inhabit; burklaces, &c. are extremely dangerous. They obstruct to it, as well its course from the brain, by which means head-aches, violence of spoplexies and other stated diseases are often occasioned.

In youth, ction of dress is to be easy and clean. Nothing can be necessary to clous, than for any one to make himself a slave to fine the decline such a one, and many such there are, would rather remore cool, thas a statue from morning till night, than discompose a latter period realter the position of a pin. Were we to recommend may, in some ar pattern for dress, it would be that which is worn by clothing, or called Quakers. They are always neat, clean, and ofthe discharge without any thing superssuors. What others lay out

The cloth y laces, ruffles, and ribands, they bestow upon superi-Clothing neels. Finery is only the affectation of dress, and very of-

fufficient to a great deal of dirt.

fary in most only add, with regard to clothing, that it ought not onwinter of fuited to the climate, the feafon of the year, and the period this cre; but likewife to the temperature and confliction. Robust and years are able to endure either cold or heat better than the delifinate; confequently may be less attentive to their clothing. But the exprecise quantity of clothes needfury for any person cannot be determined by reasoning. It is entirely a matter of experience, and every man is the best judge for himself what quantity of clothes is necessary to keep him warm\*.

<sup>\*</sup> The celebrated Boerhaave used to say, that nobody suffered by cold save sools and leggars; the latter not being able to procure clothes, and the sormer not having sense to wear them. Be this as it may, I can with the strictest truth declare, that in many cases where the powers of medicine, had been tried in vain, I have cured the patient by recommending thick spaces, a shame! wnistened and drawers, a pair of under slockings, or a shame! posticout, to be worn during the cold scasen et least.

#### CHAP. VII.

#### OF INTEMPERANCE.

MODERN author\* observes, that temperance and exercise are the two best physicians in the world. He might have added, that if these were duly regarded, there would be little occasion for any other. Temperance may justly be called the parent of health: yet numbers of mankind act as if they thought diseases and death too slow in their progress, and by intemperance and debauch seem as

it were to folicit their approach.

The danger of intemperance appears from the very construction of the human body. Health depends on that state of the folids and shulds which fits them for the due performance of the vital functions; and, while these go regularly on, we are sound and well; but whatever disturbs them necessarily impairs health. Intemperance never fails to disorder the whole animal occanomy; it hurts the digestion, relaxes the nerves, renders the different secretions irregular, vitiates the humours, and occasions numberless diseases.

The analogy between the nourishment of plants and animals affords a striking proof of the danger of intemperance. Moissure and manure greatly promote vegetation; yet an over quantity of either will entirely destroy it. The best things become hurtful, nay destructive, when carried to excess. Hence we learn, that the highest degree of human wisdom consists in regulating our appetites and passions so as to avoid all extremes. It is that chiefly which entitles us to the character of rational beings. The slave of appetite will

ever be the difgrace of human nature.

The Auther of Nature hath endued us with various passions, for the propagation of the species, the preservation of the individual, &c. Intemperance is the abuse of these passions; and moderation consists in the proper regulation of them. Men, not contented with satisfying the simple calls of nature, create artificial wants, and are perpetually in search of something to gratify them; but immaginary wants can never be gratified. Nature is content with little; but luxury knows no bounds. Hence the epicure, the drunkard, and the debauchee, seldom stop in their carrieer, till their money or their constitution sails; then indeed they generally see their error when too late.

It is impossible to lay down fixt rules with regard to diet, on account of the different constitutions of mankind. The most ignorant person, however, certainly knows what is meant by excess; and it is in the power of every man, if he chooses, to

avoid it.

The great rule of diet is to study simplicity. Nature delights in the most plain and simple food, and every animal, except man, follows her dictates. Man alone riots at large, and ransacks the whole creation in quest of luxuries, to his own destruction. An elegant writer\* of the last age speaks thus of intemperance in diet: "For my part, when I behold a fashionable table set out in all its "maniscence, I fancy that I see gouts and dropsies, severs and "lethargies, with other innumerable distempers, lying in ambust-

" cade among the difhes."

Nor is intemperance in other things less destructive than in diet. How quickly does the immoderate pursuit of carnal pleasures, or the abuse of intoxicating liquors, ruin the best constitution! Indeed these vices generally go hand in hand. Hence it is that we so often behold the votaries of Bacchus and Venus, even before they have arrived at the prime of life, worn out with diseases, and hasting with swift pace to an untimely grave. Did men restect on the paintul diseases and premature deaths, which are daily occasioned by intemperance, it would be sufficient to make them thrink back with horror from the indulgence even of their darling pleasures.

Intemperance does not hurt its votaries alone: the innocent too often feel the direful effects of it. How many wretched orphans are to be feen embracing dung-hills, whose parents, regardless of the future, spent in riot and debauch what might have served to bring up their offspring in a decent manner? How often do we behold the miserable mother, with her helpless infants, pining in want, while the cruel father is indulging in his infatiate appears.

tites ?

Families are not only reduced to mifery, but even extirpated, by intemperance Nothing tends fo much to prevent prepagation, and to shorten the lives of children, as the intemperance of parents. The poor man who labours all day, and at night lies down contented with his humble fare, can boast a numerous offspring, while his pampered lord, sunk in ease and luxury, often languishes without an heir to his ample fortunes. Even states and empires feel the influence of intemperance, and rife or fall as it prevails.

Instead of mentioning the different kinds of intemperance, and pointing out their influence upon health, we shall only, by way of example, make a few observations on one particular species of that

vice, viz. the abuse of intoxicating liquors.

Every act of intoxication puts Nature to the expence of a fever, in order to discharge the poisonous draught. When this is repeated almost every day, it is easy to foresee the consequences. That constitution must be strong indeed, which is able long to hold out under

a daily fever! but fevers occasioned by drinking do not always go off in a day; they frequently end in an inflammation of the breatt,

liver, or brain, and produce fatal effects.

Though the drunkard should not fall by an acute disease, he seldom escapes those of a chronic kind. Intoxicating liquors, when used to excess, weaken the bowels and spoil the digestion; they destroy the power of the nerves, and occasion paralytic and convulsive disorders; they likewise heat and inflame the blood, destroy its balfamic quality, render it unsit for circulation, and the nourishment of the body. Hence obstructions, atrophies, dropsies, and confumptions of the lungs. These are the common ways in which drunkards make their exit. Diseases of this kind, when brought on by hard drinking, seldom admit of a cure.

Many people injure their health by drinking, who feldom geodrink. The continual habit of foaking, as it is called, though it effects be not fo violent, is not less pernicious. When the vessels are kept constantly full, and upon the stretch, the different digestions can neither be duly performed, nor the humours properly prepared. Hence most people of this character are afflicted with the gout, the gravel, ulcerous fores in the legs, &c. If these disorders do not appear, they are seized with low spirits, hypocondriacal affect ons,

and other symptoms of indigestion.

Confomptions are now so common, that it is thought one-tenth of the inhabitants of great towns die of that disase. Hard drinking is no doubt one of the causes to which we must impute the increase of consumptions. The great quantities of viscid malt liquor drank by the common people of England, cannot fail to render the blood sizy and unsit for circulation; from whence proceed obstructions, and inslammations of the lungs. There are few great ale-drinkers who are not phthisical: nor is that to be wondered at, considering the glutinous and almost indigestible nature of strong ale.

Those who drink ardent spirits or strong wines run still greater hazard; these liquors heat and inflame the blood, and tear the tender vessels of the lungs to pieces; yet so great is the consumption of them in this country, that one would almost be induced to think

that the inhabitants lived upon them\*.

<sup>\*</sup> We may form some notion of the immense quantity of ardent stirits consumed in Great Britain from this circumstance, that in the city of Edinburgh and its environs, lesides the great quantity of foreign spirits duly entered, and the still greater quantity which is supposed to be smuggled, it is computed that above two shouland private stills are constantly employed in preparing a prisonous liquor called Molasses. The common people have got so universally into the habit of drinking this buse

The habit of drinking proceeds frequently from misfortunes in life. The miferable fly to it for relicf. It affords them indeed a temporary ease. But, alas! this solace is short lived; and when it is over, the spirits sink as much below their usual tone as they had before been raised above it. Hence a repetition of the dose becomes necessary, and every fresh dose makes way for another, till the unbappy wretch becomes a slave to the bettle, and at length fells a facrifice to what at first perhaps was taken only as a medicine. No man is so dejected as the drinkard when his debauch is gone off.—Hence it is, that those who have the greatest flow of spirits while the glass circulates freely, are of all others the most melancholy when sober, and often put an end to their own miserable existence in a fit of speen or ill burnour.

Drunkenness not only proves destructive to health, but likewise to the faculties of the mind. It is strange that creatures who value themselves on account of a superior degree of reason to that of brutes, should take pleasure in sinking so far below them. Were such as voluntarily deprive themselves of the use of reason, to continue ever after in that condition, it would seem but a just punishment. Though this be not the consequence of one act of intoxication, it seldom sails to succeed a course of it. By a habit of drinking, the greatest genius is often reduced to a mere idi i\*.

Intoxication is peculiarly hurtful to young perfors. It heats their blood, impairs their strength, and obstructs their growth; besides, the frequent use of strong liquors in the early part of life destroys any bonesit that might arise from them afterwards. Those who make a practice of drinking generous liquors when young, cannot expect to reap any benesit from them as a cordial in the decline of life.

fpirit, that when a porter or labourer is seen reeling along the streets, they say, he has got molassed.

\* It is amazing that our improvements in arts, learning, and politerels, have not put the barharous custom of drinking to excess out of fashion. It is indeed less common in South Britain than it was formerly; but it still prevails very much in the North, where this relic of harharity is mist ken for hospitality. There no man is supposed to entertain his guest's who does not make them drunk. Forcing people to drink, is certain as greatest piece of rudeness that any man can be guilty of.—Manliness, complaisance, or more good nature, may induce a man to take his glass if urged to it, at a time when he might as well take poison. The custom of drinking to excess has long been out of sast in in France; and, as it begins to lose ground among the politer part of the English, we hope it will soon be banished from every part of this island.

Drunkenness is not only in itself a most abominable vice, but is an inducement to many others. There is hardly any crime so horrid that the drunkard will not perpetrate for the love of liquor.—We have known mothers sell their children's clothes, the food that they should have eat, and afterwards even the infants themselves, in order to purchase the accursed draught.

## C H A P. VIII.

#### OF CLEANLINESS.

Where water can be had for nothing, it is furely in the power of every person to be clean. The continual discharge from our bodies by perspiration, renders the frequent change of apparel necessary. Changing apparel greatly promotes the secretion from the skin, so necessary for health. When that matter which ought to be carried off by perspiration, is either retained in the body, or resorbed from dirty clothes, it must occasion diseases.

Diseases of the skin are chiefly owing to want of cleanliness. They may indeed be caught by infection, or brought on by poor living, unwholesome food, &c. but they will seldom continue long where cleanliness prevails. To the same cause must we impute the various kinds of vermin which infest the human body, houses, &c. These may always be banished by cleanliness alone, and wherever

they abound, we have reason to believe it is neglected.

One common cause of putrid and malignant severs, is the want of cleanliness. These severs commonly begin among the inhabitants of close dirty houses, who breathe unwholesome air, take little exercise, and wear dirty clothes. There the insection is generally hatched, which often spreads far and wide, to the destruction of many. Hence cleanliness may be considered as an object of public attention. It is not sufficient that I be clean myself while the want of it in my neighbour affects my health as well as his own. If dirty people cannot be removed as a common nuisance, they ought at

\* Mr. Pot, in his surgical observations, mentions a differ which he calis the chimney-sweeper's cancer, as it is almost peculiar; and with great justice. This he attributes to neglect of cleanliness, and with great justice. I am convinced, that if that part of the body which is the seat of this cruel disease was kept clean by frequent wishing, it would never hippen. The climbing boys, as they are called, are certainly the most inferable wretches on the face of the earth; yet, for cleaning chimnies, no such persons are ne essay.

realt to be avoided as infectious. All who regard their health

should keep at a distance even from their habitation.

In places where great numbers of people are collected, cleanlinels becomes of the utmost importance. It is well known that infectious diseases are communicated by tainted air. Every thing, therefore, which tends to pollute the air, or spread the infection, ought with the utmost care to be guarded against. For this reason, in great towns, no filth, of any kind, should be permitted to lie upon the streets. Nothing is more apt to convey intection than the excrements of the diseased.

In many great towns the streets are little better than dunghills, being frequently covered with ashes, dung, and nastiness of every kind. Even slaughter-houses, or killing-shambles, are often to be seen in the very centre of great towns. The putrid blood, excrements, &c. with which these places are generally covered, cannot fail to taint the air, and render it unwholesome. How easily might this be prevented by active magistrates, who have it always in their power to make proper laws relative to things of this nature, and to

enforce the observance of them.

We are forry to fay, that the importance of general cleanliness does not feem to be sufficiently understood by the magistrates of most great towns in Britain; though health, pleasure, and delicacy, all conspire to recommend an attention to it. Nothing can be more agreeable to the senses, more to the honour of the inhabitants, or more conducive to their health, than a clean town; nor can any thing impress a stranger with a more disrespectful idea of any people than its opposite. Whatever pretensions people may make to learning, politeness, or civilization, we will venture to assume that while they neglect cleanliness, they are in a state of barbarity\*.

The peafants in most countries seem to hold cleanliness in a sort of contempt. Were it not for the open situation of their houses, they would often teel the bad effects of this disposition. One seldom sees a farm-house without a dung-hill before the door, and frequently the cattle and their masters lodge under the same roof. Peafants are likewise extremely careless with respect to change of apparaments.

How truly great does the emperor Trajon appear, when giving directions to Pline, his pro conful, concerning the making of a common fewer

for the healt's and imvenience of a conquered city?

<sup>\*</sup> In ancient Rome the greatest men did not think cleanliness an object unavorthy of their attention. Pliny seys, the Cloaca, or common sewers for the conveyance of filth and nastiness from the city, were the greatest of all the public works; and bestows higher encomiums upon Tarquinius, Arity, and others who made and improved them, than on those win achieved the greatest conquests.

rel, keeping their houses, &c. clean. This is merely the effect of indolence and a dirty disposition. Habit may indeed render it less disagreeable to them, but no habit can ever make it salutary to

wear dirty clothes or breathe unwholesome air.

As many articles of diet come through the hands of peafants, every method thould be taken to encourage and promote habits of cleanline is among them. This, for example, might be done by giving a fuell premium to the perfou who brings the cleanest and best article of any kind to market, as butter, cheese, &c. and by punishing severely those who bring it dirty. The same method should be taken with botchers, bakers, brewers, and all who are

employed in preparing the necessaries of life.

In camps the strictest regard should be paid to cleanliness. By negligence in this matter, infectious diseases are often spread amongst a whole army: and frequently more die of these than by the sword. The Jews, during their encampments in the wilderness, received particular instructions with regard to cleanlinesst. The rules enjoined them ought to be observed by all in the like situation. Indeed the whole system of laws delivered to that people, has a manifest tendency to promote cleanliness. Whoever considers the nature of their climate, the diseases to which they were liable, and their dirty disposition, will see the propriety of such laws.

It is remarkable that, in most eastern countries, cleanliness makes a great part of their religion. The Mahometan, as well as the Jewish religion enjoins various bathings, washings, and purifications. No doubt these might be designed to represent inward purity; but they were at he same time calculated for the preservation of health. However whimsical these washings may appear to some, sew things would tend more to prevent diseases than a proper attention to many of them. Were every person, for example, after visiting the siek, handling a dead body, or touching any thing that might convey infection, to wash before he went into company, or fat down to meat, he would run less hazard either of catching the infection himself, or of communicating it to others.

Frequent washing not only removes the filth and fordes which adhere to the skin, but likewise promotes the perspiration, braces the body, and enlivens the spirits. How refreshed, how cheerful, and

Deuter. chap. xxii. ver. 12, 13.

<sup>†</sup> Thou shalt have a place also without the camp, whither thou shalt go forth abroad; and thou shalt have a paddle upon thy weapon; and it shall be when thou shalt ease thyself alroad, thou shalt dig therewith, and shalt turnback, and cover that which coneth from the, Se.

agreeable does one feel on being shaved, washed, and shifted; especially when these offices have been neelected longer than usual!

The eastern cufton of wathing the feet, though less necessary in this country, is nevertheless a very agreeable piece of cleanliness, and contributes greatly to the preservation of health. The sweat and dirt with which these parts are frequently covered, cannot fail to obstruct the perspiration. This piece of cleanliness would often prevent colds and tevers. Were people careful to both their feet and less in lokewarm water at night, after being exposed to cold or wet through the day, they would feldom experience the ill effects

which often proceed from these causes.

A proper attention to cleanlines is no where more necessary than on shipboard. If epidemical distempers break out there no one can be fate. The best way to prevent them, is to take care that the whole company be cleanly in their clothes, bedding, &c. When infectious distails do break out, cleanliness is the most likely means to prevent their speeding; it is likewise necessary to prevent their returning afterwards, or being conveyed to other places. For this purpose, the clothes, bedding, &c. of the fick ought to be carefully wathed, and sumigated with brimstone. Infection will lodge a long time in dirty clothes, and afterwards break out in the most terrible manner.

In places where creat numbers of fick people are collected together, cleanlines ought to be most religiously observed. The very small in such places is often sufficient to make one sick. It is easy to imalize what effect that is likely to have upon the diseased. In an hospital or infirmary, where cleanliness is neglected, a person in persect health has a greater chance to become sick, than a sick per-

ion has to get well.

Few things are more unaccountable then that neglect, or rather dread of cleanliness, which appears among those who have the care of the fick; they think it almost criminal to suffer any thing that is clean to come near a perfen in a fever, for example, and would rather allow him to wallow in all manner of fish than change the least bit of his linen. It cleanlines be necessary for persons in health, it is certainly more ferfor the fick. Many diseases may be cured by cleanliness alone; most of them might be minigated by it; and, where it is neglected, the slightest disorders are often changed into the most malignant. The same midsken care which prompted people to prevent the least admission of fresh air to the fick, seems to have induced them to keep them disty. Both these destructive prejudices will we hope, be soon entirely eradicated.

Cleanl ness is certainly agreeable to our nature. We cannot help approving it in others, even though we should not practife it ourselves. It sooner attracts our regard than even finery itself, and of-

ten gains effecm where that fails. It is an ornament to the highest as well as the lowest station, and cannot be dispensed with in either. Few virtues are of more importance to society than general cleaniness. It ought to be carefully cultivated every where; but in populous cities it should be almost revered\*.

## CHAP. IX.

ANY diseases are infectious. Every person ought therefore, as far as he can, to avoid all communication with the diseased. The common practice of visiting the sick, though often well meant, has many ill consequences. For be it from us to discourage any act of charity or benevolence, especially towards those in distress; but we cannot help blaming such as endanger their own or their neighbours' lives by a militaken friendship or an imperti-

nent curiofity.

The houses of the fick, especially in the country, are generally crowded from morning till night with idle visitors. It is customary, in such places, for servants and young people to wait upon the fick by turns, and even to sit up with them all night. It would be a miracle indeed should such always escape. Experience teaches us the danger of such conduct. People often catch severs in this way, and communicate them to others, till at length they become epidemic.

It would be thought highly improper, for one who had not had the small pox, to wait upon a patient in that disease; yet many other severs are almost as insectious as the small-pox, and not less statak. Some imagine that severs prove more satal in villages than in great towns, for want of proper medical affistance. This may sometimes be the case; but we are inclined to think it oftener pro-

ceeds from the cause above mentioned.

\* As it is impossible to be thoroughly clean without a sufficient quantity of water, we would earnessly recommend it to the magistrates of great towns to be particularly attentive to this article. Nost great towns in Britain are so situated as to be easily supplied with water; and those persons who will not make a proper use of it, after it is brought to treir hand, containly deserve to be severely punished. The streets of great towns, where water can be had, ought to be washed every day. This is the only effectual method for keeping them thoroughly clean; and, upon trial, we are persuaded it will be found the cheapest.

Some of the most dreadful diseases incident to human nature might, in

my opinion, be entirely eradicated by cleanlinefs.

Were a plan to be laid down for communicating infection, it could not be done more effectually than by the common method of vifiting the fick. Such vifitors not only endanger themselves and their connections, but likewise hart the fick. By crowding the house, they render the air unwholess me, and by their private whispers and distinct countenances disturb the imagination of the patient, and depress his spirits. Persons who are ill, especially in tevers, ought to be kept as quiet as possible. The sight of strange saces, and every thing that disturbs the mind, hurts them.

The common practice in country places of inviting great numbers of people to functals, and crowding them into the fame apartnent where the corple lies, is another way of fpreading intection. The infection does not always die with the potient. Every thing that comes into contact with his body while alive receives the contacton, and fome of them as clothes, blankets, &c. will retain it for a long time. Perfens who die of intections differders ought not to lie long unburied; and people flould keep as much as possible at a distance

from them.

It would tend greatly to prevent the spreading of insectious discases, if those in health were kept at proper distance from the sek. The Jewish Legislator, among many other wise institutions for preserving health, has been peculiarly attentive to the means of preventing insection, or desilement as it is called, either from a discassed person or a dead body. In many cases the discassed were to be separated from those in health; and it was deemed a crime even to approach their halitations. If a person only touched a discassed or dead body, he was appointed to wash himself in water, and to keep for some time at a distance from seciety.

Infections diseases are often communicated by clothes. It is extremely dangerous to wear apparel which has been wern by the deceased, unless it has been well washed and sumigated, as intection may ledge a long time in it, and afterwards produce very tragical effects. This shows the danger of buying at random the clothes

which have been worn by other people.

Infectious disorders are frequently imported. Commerce, together with the rickes of foreign climes, brings us also their diseases. These do often nore than counterbalence all the advantages of that trade by means of which they are introduced. It is to be regretted, that so little care is commonly bestowed, either to prevent the introduction or spreading of infectious maledies. Some attention indeed is generally paid to the plague; but other diseases pass unregarded\*.

<sup>\*</sup> Were the teath part of the care taken to prevent the importation of difeases, that there is to prevent smuggling, it would be attended with

Infection is often spread through cities, by jails, hospitals, &c. These are frequently situated in the very middle of populous towns; and when infectious diseases break out in them, it is impossible for the inhabitants to escape. Did magistrates pay any regard to the

health of the people, this evil might be easily remedied.

Many are the causes which tend to diffuse infection through populous cities. The whole atmosphere of a large town is one contaminated mass, abounding with various kinds of insection, and must be pernicious to health. The best advice that we can give to such as are obliged to live in large cities, is, to choose an open fituation, to avoid narrow, dirty, crowded streets; to keep their own houses and offices clean; and to be as much abroad in the open air as their time will admit.

It would tend greatly to prevent the spreading of infectious diseases, were proper nurses every where employed to take care of the This might often fave a family, or even a whole town, from being infected by one person. We do not mean that people should abandon their friends or relations in distress, but only put them on their guard against being too much in company with those who are

afflicted with diseases of an infectious nature.

Such as wait upon the fick in infectious diseases run great hazard. They should stuff their noses with tobacco, or some other strong fmelling herb, as rhue, tanfy, or the like. They ought likewife to keep the patient very clean, to sprinkle the room where he lies with vinegar, or other strong acids, frequently to admit a stream of fresh air into it, and to avoid the finell of his breath as much as they can. They ought never to go into company without having changed their clothes and washed their hands; otherwise, if the disease be infectious, they will in all probability carry the contagion along with them\*.

many happy consequences. This might easily be done by appointing a phyfician at every considerable fea-port, to inspect the ship's company, passengers, &c. before they came ashore, and, if any sever or other infectious disorder prevailed, to order the ship to perform a shart quarantine, and to send the sick to some hospital or other proper place to be cured; and to have all their clothes, bedding, &c. either refrequed or properly cleansed, by funnigation, &c. This would prevent fevers, and infestious diseases, from being brought into sea-ports, and from thence diffusing through the country.

\* There is reason to believe that infection is often conveyed from one place to another by the carelessness of the faculty themselves. Many physicians affect a familiar way of sitting upon the patient's bed side, and holding his arm for a considerable time. If the patient has the smallpox, or any other infestious disease, there is no doubt but the dester's.

However trifling it may appear to inconfiderate persons, we will venture to affirm, that a due attention to those things which tend to diffuse infection would be of great importance in preventing discases. As most diseases are in some degree intectious, no one should continue long with the sick, except the necessary attendants. I mean not, however, by this cantion, to deter those whose duty or office leads them to wait upon the sick, from such a landable and ne-

ceffary employment.

Many things are in the power of the magistrate which would tend to prevent the spreading of infection; as the promoting of public cleanliness: removing jails, hospitals, burying-grounds, and other places where infection may be generated, at a proper distance from great towns\*: widening the streets; pulling down useless walls. and taking all methods to promote a free circulation of air through every part of the town, &c. Public hospitals, or proper places of reception for the fick, provided they were kept clean, well ventilated, and placed in an open fituation, would likewife tend to prevent the spreading of infection. Such places of reception would prevent the poor, when fick, from being visited by their idle or officious neighbours. They would likewife render it unnecessary for fick fervants to be kept in their master's houses. Masters had better pay for having their fervants taken care of in an hospital, than run the hazard of having an infectious difease diffused among a numerous family. Sick fervants and poor people, when placed in lefpitale, are not only less apt to diffuse intection among their neighbours, but have likewife the advantage of being well attended.

We are not, however, to learn that hospitals, instead of preventing insection, may become the means of diffusing it. When they are placed in the middle of great towns; when numbers of patients are crowded together in small apartments; when there is a constant communication kept up between the citizens and the patients; and when cleanliness and ventilation are neglected, they become nests for hatching diseases, and every one who goes into them not only runs a risk of receiving insection himself, but likewise of communicating it to others. This however is not the fault of the hospitals, but of those who have the management of them. It were to be

hands, clothes, Sc. will carry away fone of the infection; and, if he goes directly to wifit another patient without washing his hands, changing his clothes, or being exposed to the open air, which is not feldem the cofe, is it any wonder that he should carry the his case along with him? Physicians not only endanger others, but also themselves, by this practice. And indeed they sometimes suffer for their want of care.

\* The ancients would not Juffer even the temples of their Gods, where

the fick resorted, to be built within the watts of a city.

wished, that they were more numerous, and upon a more respectable footing, as that would induce people to go into them with less reluctance. This is the more to be desired, because most of the putril severs and other insectious disorders break out among the poor, and are by them communicated to the better fort. Were proper attention paid to the first appearances of such disorders, and the putients early conveyed to an hospital, we should seldom see a putrid sever, which is almost as insectious as the plague, become epidemic.

# C H A P. X. OF THE PASSIONS.

THE passions have great influence both in the cause and cure of diseases. How the mind affects the body, will in all probability ever remain a secret. It is sufficient for us to know, that there is established a reciprocal influence between the metal and corporeal parts, and that whatever injures the one disorders the other.

Of Anger.

The passion of anger ruffles the mind, distorts the countenance, hurries on the circulation of the blood, and disorders the whole vital and animal functions. It often occasions severs, and other acute diseases; and sometimes even sudden death. This passion is peculiarly hurtful to the delicate, and those of weak nerves. I have known such persons frequently lose their lives by a violent sit of anger, and would advise them to guard against the excess of this passion with the utmost care.

It is not indeed always in our power to prevent being angry; but we may furely avoid harbouring refentment in our breaft. Refentment preys upon the mind, and occasions the most obstinate chronical diforders, which gradually waste the constitution. Nothing shews true greatness of mind more than to forgive injuries; it promotes the peace of society, and greatly conduces to our own ease,

health, and felicity.

Such as value health should avoid violent gusts of anger, as they would the most deadly posson. Neither ought they to indulge refertment, but to endeavour at all times to keep their minds calum and serene. Nothing tends so much to the health of the body as a constant tranquility of mind.

Of Fear.

The influence of fear, both in occasioning and aggravating diseafes, is very great. No man ought to be blamed for a decent concern about life; but too great a desire to preserve it is often the cause of losing it. Fear and anxiety, by depressing the spirits, not only dispose us to diseases, but often render those diseases satal which an un-

dannted mind would overcome.

Sudden fear has generally violent effects. Epileptic fits, and other convultive diforders, are often occasioned by it. Hence the danger of that practice, so common among young people, of frightening one another. Many have lost their lives, and others have been rendered miserable, by frolics of this kind. It is dangerous to tamper with the human passions. The mind may easily be thrown into

fuch disorder as never again to act with regularity.

But the gradual effects of tear prove most huntful. The conftant dread of some surface evil, by dwelling upon the mind, often occasions the very evil itself. Hence it comes to pass, that so many die of those very diseases of which they long had a dread, or which had been impressed on their minds by some accident, or foolish prediction. This, for example, is often the case with women in child bed. Many of those who die in that simuation, are impressed with the notion of their death a long time before it happens; and there is reason to believe that this impression is often the cause of it.

The methods taken to impress the minds of women with apprehensions of the great pain and peril of child-birth, are very hurtful. Few women die in labour, though many lose their lives after it; which may be thus accounted for. A woman after delivery, finding herself weak and exhausted, immediately apprehends the is in danger; but this fear seldom fails to obstruct the necessary evacuations, upon which her recovery depends. Thus the sex often fall a sacrifice to their own imaginations, when there would be no danger, did

they apprehend none.

care to be guarded against.

It feldom happens that two or three women in a great town die in child-bed, but their death is followed by many others. Every woman of their acquaintance who is with child dreads the fame fate, and the d feafe becomes epidemical by the mere force of imagination. This, should induce pregnant women to despife fear, and by all means avoid those tattling gossips who are continually buzzing in their ears the misfortunes of others. Every thing that may in the least alarm a pregnant or child-bed woman, ought with the greatest

Many women have lost their lives in child-bed by the old superstitious custom, still kept up in most parts of Britain, of tolling the parish bell for every person who dies. People who think themselves in danger are very inquisitive; and if they come to know that the bell tolls for one who died in the same signation, with themselves.

bell tolls for one who died in the same situation with themselves, what must be the consequence? At any rate they are apt to suppose that this is the case, and it will often be found a very difficult mat-

ter to perfunde them of the contrary.

But this custom is not pernicious to child-bed women only. It is hurtful in many cases. When low severs, in which it is difficult to support the patient's spirits, prevail, what must be the effect of a funeral peal sounding sive or six times a day in his ears? No doubt his imagination will suggest that others died of the same disease under which he labours. This apprehension will have a greater tendency to depress his spirits, than all the cordials of which medicine can boast will have to raise them.

If this useless piece of ceremony cannot be abolished, we ought to keep the sick as much from hearing it as possible, and from every other thing that may tend to alarm them. So far however is this from being generally attended to, that many make it their business to visit the sick, on purpose to whisper dismal stories in their ears. Such may pass tor sympathizing triends, but they ought to keep such

persons at the greatest distance from them.

A custom has long prevailed among physicisms, of prognosticating, as they call it, the patient's fate, or foretelling the lifte of the difease. Vanity no doubt introduced this practice, and ttill supports it, in spite of common sense and the safety of mankind. I have known a physician barbarous enough to boast, that he pronounced more sentences than all his Majesty's judges. Would to God that such sentences were not often equally satal! It may indeed be alledged, that the doctor does not declare his opinion before the patient. So much the worse. A senseble patient had better hear what the doctor says, than learn it from the disconsolate looks, the waterveyes, and the broken whispers of those about him. It seldom happens, when the doctor gives an unsavorable opinion, that it can be concealed from the patient. The very embarrassement which the friends and and attendants shew in disguising what he has said, is generally sufficient to discover the truth.

Kind heaven has, for the wisest ends, conceased from mortals their fate; and we do not see what right any man has to announce the death of another, especially is such a deel ration has a chance to kill him. Mankind are indeed very fond of prying into suture events, and seldom fail to solicit the physician for his opinion. A doubtful answer, however, or one that may tend rather to encourage the hopes of the sick, is surely the most proper. This conduct could neither hurt the patient nor the physician. Nothing tends more to destroy the credit of physic than those bold prognosticators, who, by the bye, are generally the most ignorant of the faculty. The mistakes which daily happen in this way are so many standing proofs of

human vanity, and the weakness of science.

We readily admit, that there are cases where the physician ought to give intimation of the patient's danger to some of his near connexious; though even this ought always to be done with the greatest caution;

but it never can be necessary in any case that the whole town and country should know, immediately after the doctor has made his vifur, that he has no hopes of his patient's recovery. Perfons whose impertinent curiofity leads them to question the physician, with regard to the fate of his patient, certainly deserve no other than an evalive antwer.

The vanity of forctelling the fare of the fick is not peculiar to the faculty. Others follow their example, and those who think themselves wifer than their neighbours often do much hurt in this way. Humanity furely calls upon every one to comfort the fick, and not to add to their affiction by alarming their fears. A friend, or even a phylician, may often do more good by a mild and fympathizing behaviour than by medicine, and should never neglect to administer

that greatest of all cordials, HOPE.

Of Grief. Grief is the most destructive of all the passions. Its effects are permanent, and when it finks deep into the mind, it generally proves faral. Anger and fear, being of a more violent nature, feldom last long; but grief often changes into a fixed melancholy, which preys upon the spirits, and wastes the constitution. This passion ought not to be included. It may generally be conquered at the beginning; but when it has gained strength, all attempts to remove it are vain.

No person can prevent mistortunes in life; but it shews true greatness of mind to bear them with ferenity. Many persons make a merit of indulging grief, and when misfortunes happen, they obstinately refuse all confolation, till the mind, overwhelmed with melancholy, finks under the load. Such conduct is not only defiructive to health, but inconfident with reason, religion, and common sense.

Change of ideas is as necessary for health as change of posture. When the mind dwells long upon one fibject, especially of a difagreeable nature, it hurts the whole functions of the body Hence grief indulged spoils the digestion and destroys the appetite; by which means the spirits are depressed, the nerves relaxed, the bewels inflated with wind, and the humours, for want of fresh supplies of chyle, vitiated. Thus many an excellent constitution has been ruined by a family mistortune, or any thing that occasions excessive gri f.

It is utterly impossible, that any person of a dejected mind should enjoy health. Life may indeed be dragged out for a few years; but whoever would live to a good old age, must be good humoured and cheerful. This indeed is not altogether in our own power; yet our temper of mind, as well a our actions, depends greatly on ourfelves. We can either affociate with cheerful or melancholy companions, mingle in the amusements and offices of life, or sit still and brood over our calamities as we choose. These, and many

flich things, are certainly in our power, and from these the mind

generally takes its cast.

The variety of scenes which present themselves to the senses, were certainly designed to prevent our attention from being took ng fixed upon any one object. Nature abounds with variety, and the mind, unless fixed down by habit delights in new objects. This at once points out the method of relieving the mind in distress. Turn the attention frequently to new objects. Examine them for some time. When the mind begins to recoil, shift the scene. By this means a constant succession of new ideas may be kept up, till the disagreeable ones entirely disappear. Thus travelling, the study of any art or science, reading or writing on such subjects as deeply engage the attention, will sooner expel grief than the most sprightly amusements.

It has already been observed, that the body cannot be healthy unless it be exercised; neither can the mind. Indelence nourishes grief. When the mind has nothing else to think of but calamities, no wonder that it dwells there. Few people who pursue business with attention are hurt by grief. Instead therefore of abstracting ourselvs from the world or business, when missfortunes happen, we ought to engage in it with more than usual attention, to discharge with double diligence the functions of our station, and to mix with

friends of a cheerful and focial remper.

Innocent amusements are by no means to be neglected. These by leading the mind insensibly to the contemplation of agreeable objects, help to dispel the gloom which missfortunes cast over it. They make time seem less tedious, and have many other happy effects.

Some persons, when overwhelmed with grief, betake themfelves to drinking. This is making the cure worse than the disease. It seldom fails to end in the ruin of fortune, character, and constitution.

Of Love.

Love is perhaps the strongest of all the passions; at least, when it becomes violent, it is less subject to the control either of the understanding or will, than any of the rest. Fear, anger, and several other passions, are necessary for the preservation of the individual, but love is necessary for the continuation of the species itself: it was therefore preper that this passion should be deeply rooted in the human breast.

Though love be a strong passion, it is seldom so rapid in its progress as several of the others. Few persons sall desperately in love all at once. We would therefore advise every one, before he tampers with this passion, to consider well the probability of his being able to obtain the object of his wishes. When that is not likely, he

fhould avoid every occasion of increasing it. He ought immediately to flee the company of the beloved object; to apply his mind attentively to business or study; to take every kind of amusement; and above all, to endeavour, if possible, to find another object which may engage his affections, and which it may be in his power to obtain.

There is no possion with which people are so ready to tamper as love, although none is more dangerou. Some men make love for anusement, others for mere vanity, or on purpose to shew their consequence with the fair. This is perhaps the greatest piece of cruelty which any one can be guilty of. What we eagerly wish for we easily credit. Hence the too credulous fair are often betrayed into a situation which is truly deplorable, before they are able to discover that the pretended lover was only in jest. But there is no jesting with this passion. When love has got to a certain height, it admits of no other cure but the possession of its object, which in this case ought always, if possible, to be obtained\*.

Of Religious Melancholy.

Many persons of a religious turn of mind behave as if they thought it a crime to be cheerful. They imagine the whole of religion confists in certain mortifications, or denying themselves the smallest indulgence, even of the most innocent amusements. A perpetual gloom hangs over their countenances, while the deepest melancholy generally preys upon their minds. At length the fairest prospects vanish, every thing puts on a dismal appearance, and those very objects which ought to give delight afford nothing but disguish. Life itself becomes a burden, and the unhappy wretch, perfuaded that no evil can equal what he feels, often puts an end to his iniferable existence.

It is great pity that ever religion should be so far perverted, as to become the cause of those evils which it was designed to cure. Nothing can be better calculated than true religion, to raise and support the mind of its votaries under every affliction that can befal them. It teaches men that even the sufferings of this life are pre-

<sup>\*</sup> The conduct of parents with regard to the different of their children in marriage is often very blamable. An advantageous match is the conflant aim of parents: while their children often fuffer a real martyrdom betwixt their inclination and duty. The first thing which parents ought to confult in disposing their children in marriage, is certainly their inclinations. Were due regard always paid to these, there would be fewer unhappy couples, and parents would not have be often cause to repent the severity of their conduct, after a ruined constitution, a left character, or a distracted mind, has soon them their mistake.

paratory to the happiness of the next; and that all who persist in a

courle of virtue shall at length arrive at complete felicity.

Perfons whose business it is to recommend religion to others, should beware of dwelling too much on gloomy subjects. That peace and tranquility of mind, which true religion is calculated to inspire, is a more powerful argument in its favour than all the terrors that can be uttered. Terror may indeed deter men from out-ward acts of wickedness, but can never inspire them with that love of God, and real goodness of heart, in which alone true religion

To conclude; the best way to counteract the violence of any pasfion, is to keep the mind closely engaged in some useful pursuit.

#### C H A P. XI.

#### OF THE COMMON EVACUATIONS.

HE principal evacuations from the human body are those by I fool, urine, and insensible perspiration. None of these can be long obstructed without impairing the health. When that which on ht to be thrown out of the body, is too long retained, it not only occasions a plethora, or too great fullness of the vessels, but requires qualities which are hurtful to the health, as acrimony, putref-

Of the Evacuation by Stock.

Few things conduce more to the health than keeping the body regular. When the faces lie too long on the bowels, they vitiate the humours; and when they are too foon discharged, the body is not fufficiently nourished. A medium is therefore to be defired, which can only be obtained by regularity in diet, fleep, and exercise.-Whenever the body is not regular, there is reason to suspect a fault

in one or the other of these.

Persons who eat and drink at irregular hours, and who eat various kinds of food, and drink of several different liquors at every meal, have no reason to expect that either their digestion will be good, or their discharges regular. Irregularity in eating and drinking disturbs every part of the animal occonomy, and never fails to occasion diseases. Either too much or too little food will have this effect .-The former indeed generally occasions looseness, and the latter costiveness; but both have a tendency to hurt the health,

It would be difficult to afcertain the exact number of stools which may be consistent with health, as these differ in the different periods of life, in different constitutions, and even in the same constitution, under a different regimen of diet, exercise, &c. It is however gonerally allowed, that one stool a day is sufficient for an adult, and that less is hurtful. But this, like most general rules, admits of many exceptions. I have known persons in perfect health who did not go to stool above once a-week\*. Such a degree of costiveness, however, is not safe; though the person who labours under it may for some time enjoy tolerable health, yet at length it may occasion diseases.

One method of procuring a ftool every day is to rife betimes, and go abroad in the open air. Not only the posture in bed is unfavourable to regular stools, but also the warmth. This, by promo-

ting the perspiration, lessens all the other discharges.

The method recommended for this purpose by Mr. Locke is likewise very proper, viz. to folicit nature, by going regularly to flool every morning, whether one has a call or not. Habits of this kind may

be acquired, which will in time become natural.

Perfors who have frequent recourse to medicines for preventing costiveness seldem fail to ruin their constitution. Purging medicines frequently repeated weaken the bowels, burt the digestion, and every dose makes way for another, till at length they become as necessary as daily bread. Those who are troubled with costiveness ought rather, if possible, to remove it by diet than drugs. They should likewise go thinly clothed, and avoid every thing of an astringent or of an heating nature. The diet and other regimen necessary in this case will be found under the article Costiveness, where this state of the bowels is treated as a disease.

Such perfons as are troubled with a habitual loofeness ought likewife to fuit their diet to the nature of their complaint. They should use food which braces and strengthens the bowels, and which is rather of an astringent quality, as wheat-bread made of the finest flour, cheese, eggs, rice boiled in milk, &c. Their drink should be red port, claret, brandy and water, in which toasted bread has

been boiled, and fuch like.

As a habitual loofeness is often owing to an obstructed perspiration, persons affected with it ought to keep their sect warm, to wear slannel next their skin, and take every other method to promote the perspiration. Further directions with regard to the treatment of this complaint will be found under the article Loofeness.

Of Urine.

So many things tend to change both the quantity and appearance of the urine, that it is very difficult to lay down any determined rules for judging of eithert. Dr. Cheyne fays, the urine ought to

<sup>\*</sup> Some persons have told me that they did not go to sievl above once a month.

<sup>†</sup> It has long been an observation among physicians, that the appearances of the urine are very uncertain, and very little to be depended on.

be equal to three-fourths of the liquid part of our aliment. But fuppose any one were to take the trouble of measuring both, he would find that every thing which altered the degree of perspiration, would alter this proportion, and likewise that different kinds of aliment would afford very different quantities of urine. Though for these, and other reasons, no rule can be given for judging of the precise quantity of urine which ought to be discharged, yet a person of common sense will seldom be at a loss to know when it is in either extreme.

As a free discharge of urine not only prevents but actually cures many diseases, it ought by all means to be promoted; and every thing that may obstruct it, should be carefully avoided. Both the secretion and discharge of urine are lessened by a sedentary life, sleeping on beds that are too soft and warm, food of a dry and heating quality, liquors which are assuingent and heating, as red port, claret, and such like. Those who have reason to suspect that their urine is in too small quantity, or who have any symptoms of the gravel, ought not only to avoid these things, but whatever else they find has a tendency to lessen the quantity of their urine.

When the urine is too long retained, it is not only reforbed, or taken up again into the mass of fluids, but by stagnating in the bladder it becomes thicker, the more watery parts slying off first, and the more gross and earthy remaining behind. By the constant tendency which these have to concrete, the formation of stones and gravel in the bladder is promoted. Hence it comes to pass, that indolent and sedentary people are much more liable to these diseases,

than persons of a more active life.

Many persons have lost their lives, and others have brought on very tedious, and even incurable disorders, by retaining their urine

No one will he surprised at this who considers how many ways it may be offected, and consequently have its appearance altered. The puffions, the flate of the atms sphere, the quantity and quality of the food, the exercise, the clothing, the finte of the other evacuations, and numberless other causes, are sufficient to induce a change either in the quantity or appearance of the urine. Any one who attends to this, will be aftonished at the impudence of those during quacks, who pretend to find out diseases, and prescribe to patients from the bare inspection of their urine. These impostors, however, are very common all over Britain, and by the amazing credulity of the populace, many of them amass considerable fortunes. Of all the medical prejudices which prevail in this country, that in favour of urine doctors is the ftrongest. The common people have fill an unlimited faith in their skill, although it has been demonstrated that no one of them is able to distinguish the urine of a horse, or any other animal, from that of a man.

too long, from a false delicacy. When the bladder has been over distended, it often loses its power of action altogether, or becomes paralytic, by which means it is rendered unable either to retain the urine, or expel it properly. The calls of nature ought never to be postponed. Delicacy is doubtless a virtue, but that can never be reckoned true delicacy, which induces any one to risk his health or hazard his life.

But the urine may be in too great as well as in too small a quantity. This may be occasioned by drinking large quantities of weak watery liquors, by the excessive use of alkaline falts, or any thing that stimulates the kidnies, dilutes the blood, &c. This diforder very foon weakens the body, and induces a confumption. It is difficult to cure, but may be mitigated by strengthening diet and a stringent medicines, such as are recommended under the article Diabetes,

or excessive discharge of urine.

Of the Perspiration.

Infensible perspiration is generally reckoned the greatest of all the discharges from the human body. It is of so great importance to health, that few difeafes attack us while it goes properly on; but when it is obstructed, the whole frame is soon disordered. This discharge however, being less perceptible than any of the rest, is confequently less attended to. Hence it is, that acute fevers, theumatifins, agues, &c. often proceed from obstructed perspiration be-

fore we are aware of its having taken place.

On examining patients, we find most of them impute their diseafes either to violent colds which they had caught, or to flight ones which had been neglected. For this reason, instead of a critical inquiry into the nature of the perspiration, its difference in different feafons, climates, constitutions, &c. we shall endeavour to point out the causes which most commonly obstruct it, and to show how far they may be either avoided, or have their influence counteracted by timely care. The want of a due attention to these, costs Britain annually fome thousands of useful lives.

Changes in the Atmosphere.

One of the most common causes of obstructed perspiration, or catching cold, in this country, is the changableness of the weather, or state of the atmosphere. There is no place where such changes happen more frequently than in Great Britain. With us the degrees of heat and cold are not only very different in the different feafuns of the year, but often change almost from one extreme to another in a few days, and fometimes even in the course of one day.-That fuch changes must affect the state of the perspiration is obvious to every one\*.

<sup>\*</sup> I never knew a more remarkable inflance of the uncertainty of the

The best method of fortifying the body against the changes of the weather, is to be abroad every day. Those who keep most within doors are most liable to catch cold. Such persons generally render themselves so delicate as to feel even the slightest changes in the atmosphere, and by their pains, coughs, and oppression of the breast, &c. they become a kind of living barometers.

Wet Clothes.

Wet clothes not only by their coldness obstruct the perspiration, but their moisture, by being absorbed, or taken up into the body, greatly increases the danger. The most robust constitution is not proof against the danger arising from wet clothes; they daily occasion fevers, rheumatisms, and other fatal disorders, even in the young

and healthy.

It is impossible for people who go frequently abroad to avoid sometimes being wet. But the danger might generally be lessened, it not wholly prevented, by changing their clothes soon; when this cannot be done, they should keep in motion till they be dry. So far are many from taking this precaution, that they often sit or lie down in the fields with their clothes wet, and frequently sleep even whole nights in this condition. The frequent instances which we have of the fatal effects of this conduct, ought certainly to deter all from being guilty of it.

. Wet Feet.

Even wet seet often occasion stall diseases. The chelic, inflammation of the breast and of the bowels, the iliac passion, chelera merbus, &c. are often occasioned by wet seet. Habit will no donb, render this less dangerous; but it ought as far as possible, to be avoided. The delicate, and those who are not accustored to have their clothes or feet wet, should be peculiarly careful in this respect.

Night Air.

The perspiration is often obstructed by night air; even in sum ner, this ought to be avoided. The dews which fall pleatifully after the hotest day, make the night more dangerous than when the weather recool. Hence, in warm countries, the evening dews are more landful than where the climate is more temperate.

It is very acreeble after a warm day to be abroad in the cool evezing; but this is a pleafure to be avoided by all who value their

reather in this country, than hoppened robile I was writing these notes. This morning, August 14, 1783, the thermometer in the shade was down at sisty-three degrees, and a very sew days ago it stood above eighty. No one who resteets on such great and sudden changes in the arms share, will be surprised to find colds, coughs, rheums, with other assertion of the broast and drawels, so conson in this country.

health. The effects of evening dews are gradual indeed, and almost imperceptible; but they are not the less to be dicaded: we would therefore advise travellers, labourers, and all who are much heated by day, carefully to avoid them. When the perspiration has been great, these become dangerous in proportion. By not attending to this, in flat marshy countries, where the exhalations an dews are copious, labourers are often seized with intermitting tevers, quinsies, and other dangerous diseases.

Damp Beds.

Beds become damp, either from their not being used, standing in damp houses, or in rooms without fire, or from the linen, not being dry when laid on the bed. Nothing is more to be dreaded by travellers than damp beds, which are common in places where such is scarce. When a traveller, cold and wet, arrives at an inn, he may by means of a good fire, warm diluting liquor, and a dry bed, have the perspiration restored; but is he be put into a cold room, and laid on a damp bed, it will be more obstructed, and the worst consequences will ensue. Travellers should avoid inns which are noted for damp beds, as they would a house insected with the plague, as no man however robust, is proof against the danger arising from them.

But inns are not the only places where damp beds are to be met with. Beds kept in private families for the reception of strangers are often equally dangerous. All kinds of linen and bedding, when not frequently used, becomes damp. How then is it possible that beds which are not slept in above two or three times a year, should be safe? Nothing is more common than to hear people complain of having caught cold by changing their bed. The reason is obvious: were they careful never to sleep in a bed but what was fruequently used, they would seldom find any ill consequences from a change.

Nothing is more to be dreaded by a delicate person when on a visit, than being laid in a bed which is kept on purpose for strangers. That ill-judged piece of complaisance becomes a real injury. All the bad consequences from this quarter might easily be prevented in private families, by causing their servants to sleep in the space beds, and resign them to strangers when they come. In inns, where the beds are used almost every night, nothing else is necessary than to keep the rooms well seasoned by frequent fires, and the

linen dry.

That baneful custom said to be practifed in many inns, of damping sheets, and pressing them, in order to save washing, and afterwards laving them on the bed, ought, when discovered, to be punished with the utmost severity. It is really a species of murder, and will often prove as satal as poison or gun-shot. Indeed no linen, especially if it has been washed in the winter, ought to be used tilt

It has been exposed for some time to the fire; nor is this operation less necessary for linen washed in summer, provided it has lain by for any length of time. This caution is the more needful, as gentlemen are often exceedingly attentive to what they cat or drink at an inn, yet pay no regard to a circumstance of much more importance.\*

Damp Houses.

Damp houses frequently produce the like ill consequences; for this reason those who build should be careful to choose a dry situation. A house which stands on a damp marshy soil or deep clay, will never be throroughly dry. All houses, unless where the ground is exceedingly dry, should have the first sloor a little raised. Servants and others, who are obliged to live in cellars and sunk stories, seldom continue long in health: masters ought surely to pay some regard to the health of their fervants, as well as their own.

Nothing is more common than for people, merely to avoid some trisling inconveniency, to hazard their lives, by inhabiting a house almost as soon as the masons, plasterers, &c. have done with it: such houses are not only dangerous from their dampness, but likewise from the smell of lime, paint, &c. The assumptions, and other diseases of the lungs, so incident to people who work in these articles are sufficient proofs of their being unwhole-some

Rooms are often rendered damp by an unseasonable piece of cleanlines; I mean the pernicious custom of washing them immediately before company is put into them. Most people catch cold, if they fit but a very short time in a room that has been lately washed; the delicate ought carefully to avoid such a situation, and even the robust are not always proof against its influence.

Sudden Transitions from Heat to Cold.

The perspiration is commonly obstructed by SUDDEN TRANSITIONS from heat to cold. Colds are seldom caught, unless when people have been too much heated. Heat rarifies the blood, quickens the circulation, and increases the perspiration; but when these are suddenly checked, the consequences must be bad. It is indeed

\* If a person suspects that his bed is damp, the simple precaution of taking off the sheets and sying in the blankets, with all, or most of his clothes on, will prevent all the danger. I have practifed this for many years, and never have been hurt by damp beds, though no constitution, without care, is proof against their baneful instuence.

† People imagine if a good fire is made in a room after it has been walked, that there is no danger from sitting in it; but they must give me leave to say that this increases the danger. The evaporation excited-

by the fire generates cold, and renders the damp more active.

impossible for labourers not to be too hot upon some occasions; but it is generally in their power to let themselves cool gradually, to put on their clothes when they leave off work, to make choice of a dry place to rest themselves in, and to avoid steeping in the open fields. These easy rules, it observed, would often prevent severs and other stated disorders.

It is very common for people, when hot, to drink freely of cold water, or finall liquors. This conduct is extremely dangerous. Thirst indeed is hard to beer, and the inclination to gratify that appetite frequently gets the better of reason, and makes us do what our julgment disapproves. Every peasant, however, knows, if his harse be permitted to drink his bellyful of cold water after violent exercise, and be immediately put into the stable, or suffered to remain at rest, that it will kill him. This they take the utmost care to prevent. It were well if they were equally attentive to

their own fafety.

Thirst may be quenched many ways without swallowing large quantities of cold liquor. The fields afford variety of acid fruits and plants, the very chewing of which would abate thirst. Water kept in the mouth for some time, and spit out again, if frequently repeated, will have the same effect. If a bit of bread be eaten along with a few mouthfuls of water, it will both quench thirst more effectually, and make the danger less. When a person is extremely hot, a mouthful of brandy, or other spirits, if it can be obtained, ought to be preserted to any thing else. But if any one has been so for isso, when hot, as to drirk freely of cold liquor, he ought to continue his exercise at least till what he drank be thoroughly warmed upon his stomach.

It would be tedious to enumerate all the bad effects which flow from drinking celd liquors when the body is hot. Sometimes this has occasioned immediate death. Hoarfeness, quinfey, and fevers of various kinds, are its common consequences. Neither is it safe when warm to eat freely of taw fruits, fallads, or the like. These indeed have not so sudden an effect on the body as cold liquors, but they are potwithstanding dangerous, and ought to be avoided.

Sitting in warm rooms, and drinking hot liquors till the pores are quite en, and immediately going into the cold air, is extremely dangeris. Colds, coughs, and inflammations of the breaft, are the ufuceffects of this conduct; yet nothing is more common than for
recple, after they have drank warm liquors for feveral hours, to
make or ride a number of miles in the coldest night, or to ramble
about in the streets.

<sup>\*</sup> The tap-resms in I onder and other great towns, where such numters of people spend their evenings, are highly pernicious. The breath

People are very apt, when a room is hot, to throw open a window and to fit near it. This is a most dangerous practice. Any person had better sit without doors than in such a situation, as the current of air is directed against one particular part of the body. Inflammatory fevers and confumptions have often been occasioned by fitting or standing thinly clothed near an open window. Nor is fleeping with open windows less to be dreaded. That ought never to be done, even in the hottest season, unless the window is at a diftance. I have known mechanics frequently contract fatal diseases, by working stript at an open window, and would advise all of them to beware of such a practice.

Few things expose people more to catch cold than keeping their own houses too warm; such persons may be said to live in a sort of hot-houses; they can hardly stir abroad to visit a neighbour but at the hazard of their lives. Were there no other reason for keeping houses moderately cool, that alone is sufficient; but no house that is too hot can be wholesome; heat destroys the spring and elasticity of the air, and renders it less fit for expanding the lungs, and the other purposes of respiration. Hence it is, that consumptions and other diseases of the lungs prove so fatal to people who work in for-

ges, glass-houses, and the like.

Some are even to fool-hardy, as to plunge themselves whet hot in cold water. Not only fevers, but madness itself, has frequently been the effect of this conduct. Indeed it looks too much like the

action of a madman to deferve a ferious confideration.

The refult of all these observations is, that every one ought to avoid, with the utmost attention, all sudden transitions from heat to cold, and to keep the body in as uniform a temperature as possible; or where that cannot be done, to take care to let it cool gradually.

People may imagine that too strict an attention to these things would tend to render them more delicate. So far however is this from being my defign, that the very first rule proposed for preventing colds, is to harden the body, by enuring it daily to the open air.

I shall put an end to what relates to this part of my subject, by giving an abstract of the justly celebrated advice of Ceifus, with respect to the preservation of health. " A man," says he, " who " is bleffed with good health, should confine himself to no particu-" lar rules, either with respect to regimen or medicine. He ought " frequently to diverlify his manner of living; to be fometimes in " town, fometimes in the country; to hunt, fail, indulge himfelf

of a number of people crowded into a low apartment, with the addition of fires, canales, the smoke of tobacco, and the fumes of het liquor, &c. must not only render it burtful to continue in such places, but dangerous to go out of them into cold and chilly atmosphere.

in refl, but more frequently to use exercise. He ought to refuse no kind of food that is commonly used, but sometimes to eat more and sometimes less: sometimes to make one at an entertainment, and sometimes to forbear it; to make rather two meals a-day than one, and always to eat heartily, provided he can digest it. He ought neither too eagerly to pursue, nor too scrupulously to avoid, intercourse with the fair fex; pleasures of this kind, rarely indulged, render the body alert and active; but when too frequently repeated, weak and languid. He should be careful in time of health not to destroy, by excesses of any kind, that vigor of constitution which should support him under sickness."

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#### DISEASES. OF

#### CHAP. XII.

#### OF THE KNOWLEDGE AND CURE OF DISEASES.

HE cure of diseases does not depend so much upon scientific A principles as many imagine. It is chiefly the result of experience and observation. By attending the fick, and carefully observing the various occurrences in diseases, a great degree of accuracy may be required, both in distinguishing their symptoms, and in the application of medicines. Hence sensible nurses, and other persons who wait upon the fick, often foresee the patients fate sooner than those who have been bred to physic. We do not however mean to infinuate, that a medical education is of no use; it is doubtless of the greatest importance; but it never can supply the place of observation.

and experience.

Every difease may be considered as an assemblage of symptoms, and must be distinguished by those which are most obvious and permanent. Instead therefore of giving a classical arrangement of difeases according to the systematic method, it will be more suitable, in a performance of this nature, to give a full and accurate description of each disease as it occurs; and, where any of the symptoms of one disease have a near resemblance to those of another, to take notice of that circumstance, and at the same time to point out the peculiar. or characteristic symptoms by which means it may be distinguished. By a due attention to these, the investigation of diseases will be found to be a less disficult matter than most people would at first be ready to imagine.

A proper attention to the patient's age, fex, temper of mind, constitution, and manner of life, will likewise greatly assist, both

in the investigation and treatment of diseascs.

In childhood the fibres are lax and foft, the nerves extremely irritable, and the fluids thin; whereas in old age the fibres are rigid, the nerves become almost insensible, and many of the vessels imper-These and other peculiarities render the diseases of the young and aged very different, and of course they must require a different method of treatment.

Females are liable to many diseases which do not afflict the other fex: besides, the nervous system being more irritable in them than in men, their diseases require to be treated with greater caution. They are less able to bear large evacuations; and all stimulating medicines ought to be administered to them with a sparing hand

Particular conflitutions not only dispose persons to peculiar diseases, but likewise render it necessary to treat these diseases in a peculiar manner. A delicate person, for example, with weak nerves, who lives mostly within doors, must not be treated under any disease, precisely in the same manner as one who is hardy and robust,

and who is much exposed to the open air.

The temper of mind ought to be carefully attended to in diseases. Fear, anxiety, and a fretful temper, both occasion and aggravate diseases. In vain do we apply medicines to the body to remove maladies which proceed from the mind. When it is affected, the best medicine is to soothe the passions, to divert the mind from anxious thought, and to keep the patient as easy and cheerful as possible.

Attention ought likewise to be paid to the climate, or place where the patient lives, the air he breathes, his diet, &c. Such as live in low marshy situations are subject to many diseases which are unknown to the inhabitants of high countries. Those who breathe the impure air of cities, have many maladies to which the more happy rustics are entire strangers. Persons who feed grossly, and indulge in strong liquors, are liable to diseases which do not affect the temperate and abstractions, &c.

It has already been observed, that the different occupations and fituations in life dispose men to peculiar diseases. It is therefore necessary to inquire into the patient's occupation, manner of life, &c. This will not only affist us in finding out the disease, but will likewise direct us in the treatment of it. It would be very imprudent to treat the laborious and the sedentary precisely in the same man-

ner, even supposing them to lay under the same disease.

It will likewise be proper to inquire, whither the disease be conflictational or accidental; whether it has been of long or short duration; whether it proceeds from any great and sudden alteration in the diet, manner of life, &c. The state of the patient's body, and or the other evacuations, ought also to be inquired into; and likewise whether he can with ease perform all the vital and animal functions, as breathing, digestion, &c.

Lastly, it will be proper to inquire what diseases the patient has formerly been liable to, and what incidings were most benesseind to him: if he has a strong aversion to any particular

drugs. &c.

As many of the indications of cure may be answered by diet, alone, it is always the first thing to be attended to in the treatment of dif-

eases. Those who know no better, imagine that every thing which goes by the name of medicine possess some wonderful power or secret charm, and think, if the patient swallows enough of drugs, that he must do well. This inistake has many ill consequences; it makes people trust to drugs, and neglect their own endeavours; besides, it discourages all attempts to relieve the sick where inedicines cannot be obtained.

Medicines are no doubt useful in their places; and, when administered with prudence, they may do much good; but when they are put in place of every thing else, or administered at random, which is not seldom the case, they must do mischief. We would therefore with to call the attention of mankind from the pursuit of secret medicines, to such things as they are acquainted with. The proper regulation of these may often do much good and there is little danger of their doing hurt.

Every difease weakens the digestive powers. The diet ought therefore, in all diseases, to be light and of easy digestion. It would be as prudent for a person with a broken leg to attempt to walk, as for one in a sever to eat the same kind of food, and in the same quantity, as when he was in persect health. Even abstinence alone will often cure a sever, especially when it has been occasioned by ex-

cess in eating or drinking.

In all fevers attended with inflammation, as pleurifies, peripneumonies, &c. thin gruels, wheys, watery infusions of mucilaginous plants, roots, &c. are not only proper for the patient's food, but they are likewise the best medicines which can be administered.

In fevers of a flow, nervous, or putrid kind, where there are no fymtoms of inflammation, and where the patient must be supported with cordials, that intention can always be more effectually answered by nourishing diet and generous wines, than by any medicines

yet known.

Nor is a proper attention to diet of less importance in chronic than in acute diseases. Persons afflicted with low spirits, wind, weak nerves, and other hypocondriacal affections, generally find more benefit from the use of solid sood and generous liquors, than from all the cordial and carminative medicines which can be adminnistered to them.

The fourvy, that most obstinate malady, will sooner yield to a proper vegetable diet, than to all the boasted antiscorbutic remedies

of the shops.

In confumptions, when the humours are vitiated, and the stomach so much weakened as to be unable to digest the solid sibres of animals, or even to assimilate the juices of vegetables, a diet consisting chiefly of milk will not only support the patient, but will often cure the disease after every other medicine has failed. Nor is an attention to other things of less importance than to diet. The strange infatuation which has long induced people to shut up the sick from all communication with the external air, has done great mischief. Not only in fevers, but in many other diseases, the patient will receive more benefit from having the fresh air prudently admitted into his chamber than from all the medicines which can be given him.

Exercise may likewise in many cases be considered as a medicine. Sailing, or riding on horse-back, for example, will be of more service in the cure of consumptions, glandular obstanctions, &c. than any medicine yet known. In diseases which proceed from a relaxed state of the solids, the cold bath, and other parts of the gymnastic

regimen, will be found equally beneficial.

Few things are of greater importance in the cure of diseases than cleanlines. When a patient is suffered to lie in dirty clothes, whatever perspires from his body is again resorbed, or taken up into it, which serves to nourish the disease and increase the danger. Many diseases may be cured by cleanliness alone; most of them may be mitigated by it, and in all of them it is highly necessary both for

the patient and those who attend him.

Many other observations, were it necessary might be adduced to prove the importance of a proper regimen in diseases. Regimen will often cure diseases without medicine, but medicine will seldom succeed where a proper regimen is neglected. For this reason, in the treatment of diseases, we have always given the first place to regimen. Those who are ignorant of medicine may confine themselves to it only. For others who have more knowledge, we have recommended some of the most simple but approved forms of medicine in in every disease. These however are never to be administered but by people of better understanding; nor even by them without the greatest precaution.

#### C H A P. XIII.

#### OF FEVERS IN GENERAL.

A Smore than one half of mankind is faid to perish by severe, it is of importance to be acquainted with their causes. The most general causes of severs are, infection, errors in det, unwhole-some air, violent emotions of the mind, excess or suppression of usual evacuations, external or internal injuries, and extreme degrees of heat or cold. As most of these have already been treated of at considerable length, and their effects shewn, we shall not now resume the consideration of them, but shall only recommend it to all, as they

would wish to avoid fevers, and other fatal discases, to pay the

most punctual attention to these articles.

Fevers are not only the most frequent of all diseases, but they are likewise the most complex. In the most simple species of severs, there is always a combination of several different symptoms. The distinguishing symptoms of sever are, increased heat, frequency of pulse, loss of appetite, general debility, pain in the head, and a difficulty in performing some of the vital or animal functions. The other symptoms usually attendant on severs are, nausea, thirst, anxiety, delirium, weariness, wasting of the flesh, want of sleep, or the sleep disturbed and not refreshing.

When the fever comes on gradually, the patient generally complains first of langour or listlessness, foreness of the sless, or the bones, as the country people express it, heaviness of the head, loss of appetite, sickness, with clamminess of the mouth; after some time come on excessive heat, violent thirst, restlessness, &c.

When the fever attacks suddenly, it always begins with an uneafy sensation of excessive cold, accompanied with debility and loss of appetite; frequently the cold is attended with shivering, oppression

about the heart, and fickness at stomach, or vomiting.

Fevers are divided into continual, remitting, intermitting, and fuch as are attended with a cutaneous eruption or topical inflammation, as the small-pox, erisipelas, &c. By a continual sever is meant that which never leaves the patient during the whole course of the disease, or which shews no remarkable increase or abatement in the symptoms. This kind of sever is likewise divided into acute, slow, and malignant. The sever is called acute when its progress is quick, and the symptoms violent; but when these are more gentle, it is generally denominated sow. When livid or petechial spots shew a putrid state of the humours, the sever is called malignant, putrid, or petechial.

A remitting fever differs from a continual only in a degree. It has frequent increases and decreases, or exacerbations and remissions, but never wholly leaves the patient during the course of the disease. Intermitting fevers or agues are those which, during the time that the patient may be said to be ill, have evident intervals or

remissions of the symptoms.

As a fever is only an effort of Nature to free herself from an offending cause, it is the business of those who have the care of the sick, to observe with diligence which way Nature points, and to endeavour to assist her operations. Our bodies are so framed, as to have a constant tendency to expel or throw off whatever is injurious to health. This is generally done by urine, sweat, stool, expectoration, vomit, or some other evacuation. There is reason to believe, if the efforts of Nature, at the beginning of a sever, were duly attended to and promoted, it would seldom coutinue long; but when her attempts are either neglected or counteracted, it is no wonder if the disease proves satal. There are daily instances of persons who, after catching cold, have all the symptoms of a beginning sever; but by keeping warm, drinking diluting liquors, bathing their feet in warm water, &c. the symptoms in a sews hours disappear, and the danger is prevented. When severe of a putrid kind threaten, the best method of obviating their effects is by repeated vomits.

Our design is not to enter into a critical inquiry into the nature and immediate causes of severs, but to mark their mest obvious symptoms, and to point out the proper treatment of the patient with respect to his diet, drink, air, &c. in the different stages of the disease. In these articles the inclinations of the patient will in a great

measure direct our conduct.

Almost every person in a fever complains of great thirst, and calls out for drink, especially of a cooling nature. This at once points out the use of water, and other cooling liquors. What is so likely to abate the heat, attenuate the humours, remove spasms and obstructions, promote perspiration, increase the quantity of urine, and in short produce every salutary effect in an ardent or inslammatory sever, as drinking plentifully of water, thin gruel, or any other weak liquor, of which water is the basis? The necessity of diluting liquors is pointed out by the dry tongue, the parched skin, and the burning heat, as well as by the unquenchable thirst of the patient.

Many cooling liquors, which are extremely grateful to patients in a fever, may be prepared from fruits, as decoctions of tamarinds, apple tea, orange whey, and the like. Mucilaginous liquors might also be prepared from marshmallow roots, linfeed, lime tree buds, and other mild vegetables. These liquors, especially when acidulated, are highly agreeable to the patient, and should never be

denied him.

At the beginning of a fever the patient generally complains of great lassification or weariness, and has no inclination to move. This evidently shews the propriety of keeping him easy, and if possible in bed. Lying in bed relaxes the spasms, abates the violence of the circulation, and gives Nature an opportunity of exerting all her force to overcome the disease. The bed alone would often remove a sever at the beginning; but when the patient struggles with the disease, instead of driving it off, he only fixes it the deeper, and renders it more dangerous. This observation is too often verified in travellers, who happen when on a journey to be seized with a

Their anxiety to get home induces them to travel with the fever upon them, which conduct feldom fails to render it fatal.

In fevers the mind as well as the body should be kept easy. Company is feldom agreeable to the fick. Indeed every thing that difturbs the imagination increases the disease: for which reason every person in a fever ought to be kept persectly quiet, and neither allowed to hear or fee any thing that may in the least affect or discompose

Though the patient in a fever has the greatest inclination for drink, yet he feldom has any appetite for folid food; hence the impropriety of urging him to take victuals is evident. Much folid food in a fever is every way hurtful. It oppresses nature, and, instead of nourishing the patient, serves only to feed the disease. What food the patient takes should be in small quantity, light, and of easy digestion. It ought to be chiesly of the vegetable kind, as panada, roafted apples, gruels, and fuch like.

Poor people, when any of their family are taken ill, run directly to their rich neighbours for cordials, and pour wine, spirits, &c. into the patient, who perhaps never had been accustomed to taste fuch liquors when in health. If there be any degree of fever, this conduct must increase it, and if there be none, this is the ready way to raife one. Stuffing the patient with sweatmeats and other delicacies is likewise very pernicious. These are always harder to digest

than common food, and cannot fail to hurt the stomach.

Nothing is more defired by a patient in 2 fever than fresh air. It not only removes his anxiety, but cools the blood, revives the spirits, and proves every way beneficial. Many patients are in a manner stifled to death in fevers for want of fresh air; yet such is the unaccountable infatuation of most people, that the moment they think a person in a fever, they imagine he should be kept in a close chamber, into which not one particle of fresh air must be admitted. stead of this, there ought to be a constant stream of fresh air into a fick person's chamber, so as to keep it moderately cool. Indeed its degree of warmth ought never to be greater than is agreeable to one in perfect health.

Nothing spoils the air of a fick person's chamber, or hurts the patient more, than a number of people breathing in it. When the blood is inflamed, or the humours in a putrid state, air that has been breathed repeatedly will greatly increase the disease. Such air not only loses its spring, and becomes unfit for the purpose of respiration, but acquires a noxious quality, which renders it in a manner

poisonous to the fick.

In fevers, when the patient's spirits are low and depressed, he is not only to be supported with cordials, but every method should be taken to cheer and comfort his mind. Many, from a mistaken zeal,

when they think a person in danger, instead of solocing his mind with the hopes and consolations of religion, fright him with the views of hell and damnation. It would be unsuitable here to dwell upon the impropriety and dangerous consequences of this conduct; it often hurts the body, and there is reason to believe seldom benefits the soul.

Among common people, the very name of a fever generally suggests the necessity of bleeding. This notion seems to have taken its rise from most severs in this country having been formerly of an inflammatory nature; but true inflammatory severs are now seldom to be met with. Sedentary occupations, and a different manner of living, have so changed the state of diseases in Britain, that there is now hardly one fever in ten where the lancet is necessary. In most low, nervous, and putrid severs, which are now so common, bleeding is really hurtful, as it weakens the patient, sinks his spirits, &c. We would recommend this general rule, never to bleed at the beginning of a fever, unless there be evident signs of inflammation. Bleeding is an excellent medicine when necessary, but should never

be wantonly performed.

It is likewise a common notion, that sweating is always necessary in the beginning of a sever. When the sever proceeds from an obstructed perspiration, this notion is not ill-sounded. If the patient only lies in bed, bathes his feet and legs in warm water, and drinks freely of warm water gruel, or any other weak diluting liquor, he will seldom sail to perspire freely. The warmth of the bed, and the diluting drink, will relax the universal spass, which generally affects the skin at the beginning of a sever; it will open the pores, and promote the perspiration, by means of which the sever may often be carried off. But instead of this, the common practice is to heap clothes upon the patient, and to give him things of a hot nature, as spirits, spiceries, &c. which fire his blood, increase the spasses, and render the disease more dangerous.

In all fevers a proper attention should be paid to the patient's longings. These are the calls of Nature, and often point out what may be of real use. Patients are not indeed to be included in every thing that the sickly appetite may crave; but it is generally right to let them have a little of what they eagerly desire, though it may not seem altogether proper. What the patient longs for, his stomach will generally digest; and such things have sometimes a very happy

effect.

When a patient is recovering from a fever, great care is necessary to prevent a relapse. Many persons, by too soon imagining themselves well, have lost their lives, or contracted other diseases of an obstinate nature. As the body after a sever is weak and delicate, it is necessary to guard against catching cold. Moderate exercise in

the open air will be of use, but great satigue is by all means to be avoided; agreeable company will also have a good effect. The diet must be light, but nourishing. It should be taken frequently, but in small quantities. It is dangerous at such a time to eat as much as the stomach may crave.

#### C H A P. XIV.

### OF INTERMITTING FEVERS, OR AGUES.

INTERMITTING fevers afford the best opportunity both of obferving the nature of a fever, and also the effects of medicine. No person can be at a loss to distinguish an intermitting sever from any other, and the proper medicine for it is now almost universally known.

The feveral kinds of intermitting fevers take their names from the period in which the fit returns, as quotidian, tertian,

quartan, &c.

CAUSES.—Agues are occasioned by effluvia from putrid stagnating water. This is evident from their abounding in rainy seasons, and being most frequent in countries where the soil is marshy, as in Holland, the Fens of Cambridgeshire, the Hundreds of Essex, &c. This disease may also be occasioned by eating too much stone fruit, by a poor watery diet, damp houses, evening dews, lying upon the damp ground, watching, satigue, depressing passions, and the like. When the inhabitants of a high country remove to a low one, they are generally seized with intermitting severs, and to such the disease is most apt to prove stall. In a word, whatever relaxes the folids, diminishes the perspiration, or obstructs the circulation in the capillary or small vessels, disposes the body to agues.

SYMPTOMS.—An intermitting fever generally begins with a pain of the head and loins, weariness of the limbs, coldness of the extremeties, stretching, yawning, with sometimes great sickness and vomiting, to which succeed shivering and violent shaking. Afterwards the skin becomes most, and a profuse sweat breaks out, which generally terminates the sit or paroxysm. Sometimes indeed the disease comes on suddenly, when the person thinks himself in perfect health; but it is more commonly preceded by listlessness,

lofs of appetite, and the fymptoms mentioned above.

REGIMEN.—While the fit continues, the patient ought to drink freely of water gruel, orange whey, weak camomile tea; or, it his spirits be low, small wine whey, tharpened with the juice of le-

mon. All his drink should be warm, as that will affist in bringing

on the sweat, and consequently shorten the paroxysm\*.

Between the paroxysms the patient must be supported with food that is nourishing, but light, and easy of digestion, as veal or chicken broths, sago, gruel with a little wine, light puddings, and such like. His drink may be small negus, acidulated with the juice of lemons or oranges, and sometimes a little weak punch. He may likewise drink insusions of bitter herbs, as camomile, wormwood, or water tresoil, and may now and then take a glass of small wine, in which gentian root, centaury, or some other bitter, has been insused.

As the chief intentions of cure in an ague are to brace the folids, and promote perspiration, the patient ought to take as much exercise between the sits as he can bear. If he be able to go abroad, riding on horse-back, or in a carriage, will be of great service: But if he cannot bear that kind of exercise, he ought to take such as his strength will permit. Nothing tends more to prolong an in-

termitting fever, than indulging a lazy indolent disposition.

Intermitting fevers, under a proper regimen, will often go off without medicine; and when the difease is mild, in an open dry country, there is seldom any danger from allowing it to take its course: but when the patient's strength seems to decline, or the paroxysms are so violent that his life is in danger, medicine ought immediately to be administered. This however should never be done till the disease be properly formed, that is to say, till the patient has

had several fits of shaking and sweating.

MEDICINE.—The first thing to be done in the cure of intermitting fevers, is to cleanse the stomach and bowels. This not only renders the application of other medicines more safe, but likewise more efficacious. In this disease, the stomach is generally loaded with cold viscid phlegm, and frequently great quantities of bile are discharged by vomit; which plainly points out the necessity of such evacuations. Vomits are therefore to be administered before the patient takes any other medicine. A dose of ipecacuanha will generally answer this purpose very well. A scruple or half a drachm of the powder will be sufficient for an adult, and for a younger person the dose must be less in proportion. After the vomit begins to operate, the patient ought to drink plentifully of weak camomile tea. The vomit should be taken two or three hours before the return of the fit, and may be repeated at the distance of two or three or days.

<sup>\*</sup> Dr. Lind fays, that twenty or twenty-five drops of laudanum put into a cup of the patient's drink, and given about haif an hour after the commoncement of the hot fit, promotes the sweat, shortens the fit, velieves the head, and tends greatly to remove the disease.

Vomits not only cleanse the stomach, but increase the perspiration, and all the other secretions, which render them of such importance, that they often cure intermitting severs without the assistance of any other medicine.

Purging medicines are likewise useful and often necessary in intermitting fevers. A smart purge has been known to cure an obstinate ague, after the Peruvian bark and other medicines had been used in vain. Vomits however are more suitable in this disease, and render purging less necessary; but if the patient be afraid to take a vomit, he ought in this case to cleanse the bowels by a dose or two of Glauber's salts, jallop, or rhubarb.

Bleading may fometimes be proper at the begining of an intermitting fever, when excessive heat, a delirium, &c. give reason to sufpect an inflammation; but as the blood is seldom in an inflammatory state in intermitting fevers, this operation is rarely necessary.

When frequently repeated, it tends to prolong the disease.

After proper evacuations, the patient may fafely use the Peruvian bark, which may be taken in any way that is most agreeable to him. No preparation of the bark seems to answer better than the most

fingle form in which it can be given, viz. in powder.

Two ounces of the best Peruvian bark, finely powdered, may be divided into twenty-four doses. These may either be made into bolumes as they are used, with a little syrup of lemon, or mixed in a gloss of red wine, a cup of camomile tea, water gruel, or any other

difficult is more agreeable to the patient\*.

In an ague which returns every day, one of the above doses may be taken every two hours during the interval of the fits. By this method the patient will be able to take five or fix doses between each paroxysin. In a tertain or third day ague it will be sufficient to take a dose every third hour during the interval, and in a quartan every fourth. If the patient cannot take so large a dose of the bark, he may divide each of the powders into two parts, and take one every hour, &c. For a young person a smaller quantity of this medicine will be sufficient, and the dose must be adapted to the age, constitution, and violence of the symtoms.

\* It has lately been observed, that the red bark is more powerful than that which has for some time been in common use. Its superior efficacy seems to arise from its being of a more perfect growth than the quill bark, and consequently more fully impregnated with the medical properties of the plant.

† In intermitting fevers of an obstinate nature, I have found it necessary to throw in the bark much faster. Indeed the benefits arising from this medicine defend chiesty upon a large quantity of it being administered in a short time. Several sances of bark given in a few days will do more than

The above quantity of bark will frequently cure an ague: the patient, however, ought not to leave off taking the medicine as foon as the paroxyfms are stopped, but should continue to use it till their is reason to believe the disease is entirely overcome. Most of the failures in the cure of this disease are owing to patients not continuing to use the medicine long enough. They are generally directed to take it till the fits are stopped, then to leave it off, and begin again at some distance of time; by which means the disease gathers strength, and often returns with as much violence as before. A relapse may always be prevented by the patient's continuing to take small doses of the medicine for some time after the symtoms disappear. This is both the most safe and effectual method of cure.

An ounce of gentian root, calamus aromaticus, and orange peel, of each an ounce, with three or four handfuls of camomile flowers, and an handful of coriander feed, all bruifed together in a mortar, may be used in form of infusion or tea. About half an handful of these ingredients may be put into a tea-pot, and an English pint of boiling water poured on them. A cup of this infusion drank three or four times a day will greatly promote the cure. Such patients as cannot drink the watery infusions, may put two handfuls of the same ingredients into a bottle of white wine, and take a glass of it twice or thrice a day. If patients drink freely of the above, or any other proper infusion of bitters, a smaller quantity of bark than is generally used will be sufficient to cure an ague\*.

Those who cannot swallow the bark in substance, may take it in decoction or insussion. An ounce of bark in powder may be insused in a bottle of white wine for four or five days, frequently shaking the bottle, afterwards let the powder subside, and pour off the clear liquor. A wine glass may be drank three or four times a day, or oftener, as there is occasion. If a decoction be more agree-

as many pounds taken in the course of some weeks. When this medicine is intended either to stop a mortification, or cure an obstinate ague, it ought to be thrown in as fust as the stomach can possibly bear it. Inattention to this circumstance has burt the reputation of one of the best medicines of

which we are in possession:

\* There is reason to believe, that sundry of our own plants or barks, which are very bitter and astringent, would succeed in the cure of intermitting severs, especially when assisted by aromatics. But as the Peruvian bark has been long approved in the cure of this disease, and is now to be obtained at a very reasonable rate, it is of less importance to search after new medicines. We cannot however omit taking notice, that the Peruvian hark is very often adulterated, and that it requires considerable skill to distinguish between the genuine and the salfe. This ought to make testile very cautious of whom they purchase it.

able, an ounce of the bark, and two drams of fnake-root bruifed, with an equal quantity of falt of wormwood, may be boiled in a quart of water, into an English pint. To the strained liquor may be added an equal quantity of red wine, and a glass of it taken fre-

quently.

In obstinate agues, the bark will be found much more efficacious when affisted by brandy, or other warm cordials, than taken alone. This I have had frequently occasion to observe in a country where intermittent fevers were endemical. The bark seldom succeeded unless assisted by snake-root, ginger, canella alba, or some other warm aromatic. When the fits are very frequent and violent, in which case the sever often approaches towards an inflammatory nature, it will be safer to keep out the aromatics, and to add salt of tartar in their stead. But in an obstinate tertian or quartan, in the end of autumn or beginning of winter, warm and cordial medicines are absolutely necessary.

As autumnal and winter agues generally prove much more obflinate than those which attack the patient in spring or summer, it will be necessary to continue the use of medicines longer in the former than in the latter. A person who is seized with an intermitsting sever in the beginning of winter, ought frequently, if the season proves rainy, to take a little medicine, although the disease may seem to be cured, to prevent a relapse, till the return of the warm season. He ought likewise to take care not to be much abroad in

wet weather, especially in cold easterly winds.

When agues are not properly cured, they often degenerate into obstinate chronical diseases, as the dropfy, jaundice, &c. For this reason all possible care should be taken to have them radically cured,

before the constituion has been too much weakened.

Though nothing is more rational than the method of treating intermitting fevers, yet, by some strange infatuation, more charms and whimsical remedies are daily used for removing this than any other discase. There is hardly an old woman who is not in possession of a nostrum for stopping an ague; and it is amazing with what readiness their pretensions are believed. Those in distress grasp at any thing that promises sudden relief; but the shortest way is not always the best in the treatment of diseases. The only meth-

<sup>\*</sup> In obstinate agues, when the patient is old, the habit phlegmatic, the season rainy, the situation damp, or the like, it will be necessary to mix with two ounces of the bark, half an ounce of Virginian snakeroot, and a quarter of an ounce of ginger, or some other warm aromatic; but when the symptoms are of an instammatory nature, half an ounce of salt of wormwood or salt of tartar, may be added to the above quantity of bark.

od to obtain a safe and lasting cure, is gradually to assist Nature in

removing the cause of the disorder.

Some indeed try bold, or rather fool-hardy experiments to cure agues, as drinking great quantities of strong liquors, jumping into a river, taking arsenic, &c. These may sometimes have the desired effect, but must always be attended with danger\*. When there is any degree of inflammation, or the least tendency to it, such experiments may prove satal. The only patient whom I remember to have lost in an intermittent sever, evidently killed himself by drinking strong liquor, which some person had persuaded him would prove an infallible remedy.

Many dirty things are extolled for the cure of intermitting fevers, as spiders, cobwebs, sinussings of candles, &c. Though these may sometimes succeed, yet their very nastiness is sufficient to set them aside, especially when cleanly medicines will answer the purpose better. The only medicine that can be depended upon, for thoroughly curing an intermittent sever, is the Peruvian bark. It may always be used with safety: and I can honestly declare, that in all my practice I never knew it fail, when combined with the medi-

cines mentioned above, and duly perfifted in.

Where agues are endemical, even children are often affliced with that disease. Such patients are very difficult to cure, as they can seldom be prevailed upon to take the bark, or any other disagreeable medicine. One method of rendering this medicine more palatable, is to make it into a mixture with distilled waters and syrup, and afterwards to give it an agreeable sharpness with the elixir or spirit of vitriol. This both improves the medicine, and takes off the nauseous taste. In cases where the bark cannot be administered, the saline mixture may be given with advantage to childrent.

Wine whey is a very proper drink for a child in an ague; to half an English pint of which may be put a tea-spoonful of the spirit of hartshorn. Exercise is likewise of considerable service; and when the disease proves obstinate, the child ought, if possible, to be removed to a warm dry air. The food ought to be nourishing, and sometimes a little generous wine should be allowed.

To children, and such as cannot swallow the bark, or when the stomach will not bear it, it may be given by clyster. Half an ounce of the extract of bark, dissolved in four ounces of warm water, with the addition of half an ounce of sweet oil, and six or eight drops of

\* See Appendix, Saline mixture.

<sup>\*</sup> Arsenic has of late been recommended as an infallible remedy in the ague; but I would advise that it should be used only under the eye of a physician.

laudanum, is the form recommended by Dr. Lind for an adult, and this to be repeated every fourth hour, or oftener, as the occasion shall require. For children the quantity of extract and laudanum must be proportionably lessend. Children have been cured of agues by making them wear a waistcoat with powdered bark quilted between the folds of it; by bathing them frequently in a strong decoction of the bark, and by rubbing the spine with strong spirits, or with a mixture of equal parts of laudanum and the saponaceous liniment.

We have been the more full upon this disease, because it is very common, and because few patients in an ague apply to physicians unless in extremeties. There are, however, many cases in which the disease is very irregular, being complicated with other diseases, or attended with symptoms which are both very dangerous and very dissibility to understand. All these we have purposely passed over, as they would only bewilder the generality of readers. When the disease is very irregular, or the symptoms dangerous, the patient ought immediately to apply to a physician, and strictly to follow his advice.

To prevent agues, people must endeavour to avoid their causes. These have been already pointed out in the beginning of this section; we shall therefore only add one preventive medicine, which may be of use to such as are obliged to live in low marshy countries, or who

are liable to frequent attacks of this disease.

Take an ounce of the best Peruvian bark; Virginian snake-root, and orange peel, of each half an ounce; bruise them altogether, and insuse for five or fix days in a bottle of brandy, Holland gin, or any good spirit; afterwards pour off the clear liquor; and take a wine glass of it twice or thrice a day. This indeed is recommending a dram: but the bitter ingredients in a great measure take off the ill effects of the spirit. Those who do not choose it in brandy, may insuse it in wine; and such as can bring themselves to chew the bark, will find that method succeed very well. Gentian root, or calamus aromaticus, may also be chewed by turns for the same purpose. All bitters seem to be antidotes to agues, especially those that are warm and astringent.

#### C H A P. XV.

#### OF AN ACUTE CONTINUAL FEVER.

THIS fever is denominated acute, ardent, or inflammatory. It most commonly attacks the young, or persons about the prime or vigour of life, especially such as live high, abound with blood;

and whose fibres are firong and elastic. It seizes people at all seasons of the year; but is most frequent in the spring and beginning of summer.

CAUSES.—An ardent fever may be occasioned by any thing that overheats the body, or produces plethora, as violent exercise, sleeping in the sun, drinking strong liquors, eating spiceries, a full diet, with little exercise, &c. It may likewise be occasioned by whatever obstructs the perspiration, as lying on the damp ground, drinking cold liquor when the body is hot, night-watching, or the like.

SYMPTOMS.—A rigour or chilliness generally ushers in this fever, which is soon succeeded by great heat, a frequent and sull pulse, pain of the head, dry skin, redness of the eyes, a florid countenance, pains in the back, loins, &c. To these succeed difficulty of breathing, sickness, with an inclination to vomit. The patient complains of great thirst, has no appetite for solid sood, is restless, and his tongue generally appears black and rough.

A delirium, excessive restlessness, great oppression of the breast, with laborious respiration, starting of the tendons, hiccough, cold clammy sweats, and involuntary discharge of urine, are very dan-

gerous fymptoms.

As this difease is always attended with danger, the best medical assistance ought to be procured as soon as possible. A physician may be of use at the beginning, but his skill is often of no availaster-wards. Nothing can be more unaccountable than the conduct of those who have it in their power, at the beginning of a sever, to procure the best medical assistance, yet put it off till things come to an extremity. When the disease by delay or wrong treatment has become incurable, and has exhausted the strength of the patient, it is in vain to hope for relief from medicine. Physicians may indeed assist Nature: but their attempts must ever prove fruitless, when she is no longer able to co-operate with their endeavours.

REGIMEN.—From the symptoms of this disease, it is evident, that the blood and other humours require to be attenuated; that the perspiration, urine, saliva, and all the other secretions, are in too small quantity; that the vessels are rigid, and the heat of the whole body too great; all these clearly point out the necessity of a regimen calculated to dilute the blood, correct the acrimony of the humours, allay the excessive heat, remove the spasmodic stricture of

the veffels, and promote the fecretion.

These important purposes may be greatly promoted by drinking plentifully of diluting liquors; as water gruel, or coameal tea, clear whey, burley water, balm tea, apple tea, &c. These may be sharpened with juice of orange, jelly of convents, raspberries, and such like: orange whey is likewise an excellent cooling drink. It is made by boiling among milk and water a bitter orange sliced,

till the curd separates. If no orange can be had, a lemon, a little cream of tartar, or a few spoonfuls of vinegar, will have the same effect. Two or three spoonfuls of white wine may occasionally be

added to the liquor when boiling.

If the patient be costive, an ounce of tamarinds, with two ounces of stoned raisins of the sun, and a couple of sigs, may be boiled in three English pints of water to a quart. This makes a very pleasant drink, and may be used at discretion. The common pectoral decoction is likewise a very proper drink. A tea-spoonful of it may be taken every two hours, and oftener, if the patient's heat

and thirst be very great\*.

The above liquids must all be drank a little warm. They may be used in smaller quantities at the beginning of a fever, but more freely afterwards, in order to affift in carrying off the disease, by promoting the different excretions. We have mentioned a variety of drinks, that the patient may have it in his power to choose those which are most agreeable; and that when tired of one, he may have recourse to another.

The patient's diet must be very spare and light. All sorts of flesh-meats, and even chicken broths, are to be avoided. He may be allowed groat-gruel, panando, or light bread boiled in water; to which may be added a few grains of common falt, and a little fugar, which will render it more palatable. He may eat roafted apples with a little fugar, toasted bread with jelly of currants, boiled prunes, &c.

It will greatly relieve the patient, especially in a hot season, to have freth air frequently let into his chamber. This, however, must always be done in such a manner as not to endanger his catching

cold.

It is too common in fevers to load the patient with bed-clothes. under pretence of making him fweat, or defending him from the cold. This custom has many ill effects. It increases the heat of the body, fatigues the patient, and retards, instead of promoting,

the perspiration.

Sitting upright in bed, if the patient is able to bear it, will often have a good effect. It relieves the head, by retarding the motion of the blood to the brain. But this posture ought never to be continued too long: and if the patient is inclined to fweat, it will be more fafe to let him lie, only railing his head a little with pil-

Sprinkling the chamber with vinegar, juice of lemon, or vinegar and rofe-water, with a little nitre disfolved in it, will greatly

<sup>\*</sup> See Appendix, Pectoral decoction.

refresh the patient. This ought to be done frequently, especially if

the weather is hot.

The patient's mouth should be often washed with a mixture of water and honey, to which a little vinegar may be added, or with a decoction of figs in barley-water. His feet and hands ought likewise frequently to be bathed in luke-warm water; especially if the head is affected.

The patient should be kept as quiet and easy as possible. Company, noise, and every thing that disturbs the mind is hurtful. Even too much light, or any thing that affects the senses, ought to be avoided. His attendants should be as few as possible, and they ought not to be too often changed. His inclinations ought rather to be soothed than contradicted: even the promise of what he craves

will often fatisfy him as much as its reality.

MEDICINE.—In this and all other fevers, attended with a hard, full, quick pulse, bleeding is of the greatest importance.—This operation ought always to be performed as soon as the symptoms of an inflammatory fever appear. The quantity of blood to be taken away, however, must be in proportion to the strength of the patient and the violence of the disease. If after the first bleeding the fever should increase, and the pulse become more frequent and hard, there will be a necessity of repeating it a second, and perhaps a third, or even a fourth time, which may be done at the distance of twelve, eighteen, or twenty-four hours from each other, as the symptoms require. If the pulse continues soft, and the patient is tolerably easy after the first bleeding, it ought not to be repeated.

If the heat and fever be very great, forty or fifty drops of the dulcified or fweet spirit of nitre may be made into a draught, with an ounce of rose-water, two ounces of common water, and half an ounce of simple syrup, or a bit of loaf sugar. This draught may be given to the patient every three or four hours while, the fever is violent; afterwards once in five or fix hours will be suffi-

cient.

If the patient be afflicted wh's reaching, or an inclination to vomit, it will be right to affift Nature's attempts, by giving him weak

camomile tea, or luke-warm water to drink.

If the body is bound, a clyster of milk and water, with a little falt, and a spoonful of sweet oil or fresh butter in it, ought daily to be administered. Should this not have the desired effect, a teaspoonful of magnesia alba, or cream of tartar, may be frequently put into his drink. He may likewise eat tamarinds, boiled prunes, roassed apples, and the like.

It about the tenth, eleventh, or twelfth day, the pulse becomes more foft, the tongue meifter, and the urine begins to let fall a red-

dish sediment, there is reason to expect a favourable issue to the disease. But if, instead of these symptoms, the patient's spirits grow languid, his pulse sinks, and his breathing becomes difficult; with a stupor, trembling of the nerves, starting of the tendons, &c. there is reason to fear that the consequences will be satal. In this case blistering plasters must be applied to the head, ancles, inside of the legs or thighs, as there may be occasion; poultices of wheat bread, mustard, and vinegar, may likewise be applied to the soles of the feet, and the patient must be supported with cordials, as strong wine whey, negus, sago gruel with wine in it, and such like.

A proper regimen is not only necessary during the fever, but likewise after the patient begins to recover. By neglecting this, many relapse, or fall into other diseases, and continue valetudinary for life. Though the body is weak after a fever, yet the diet for some time ought to be rather light than of too nourishing a nature. Too much food, drink, exercise, company, &c. are carefully to be avoided. The mind ought likewise to be kept easy, and the patient should not attempt to pursue study, or any business that re-

quires intense thinking.

If the digestion is bad, or the patient is seized at times with severish heats, an infusion of Peruvian bark in cold water will be of use. It will strengthen the stomach, and help to subdue the remains

of the fever.

When the patient's strength is pretty well recovered, he ought to take some gentle laxative. An ounce of tamarinds and a dram of sena may be boiled for a few minutes in an English pint of water, and an ounce of manna dissolved in the decoction; afterwards it may be strained, and a tea-cupful drank every hour till it operates. This dose may be repeated twice or thrice, five or fix days intervening.

Those who follow laborious employments ought not to return too foon to their labour after a fever, but should keep easy till their

strength and spirits are sufficiently recruited.

# C H A P. XVI. OF THE PLEURISY.

THE true pleurify is an inflammation of that membrane called the pleura, which lines the infide of the breaft. It is diffinguished into the moist and dry. In the former the patient spits freely; in the latter, little or none at all. There is likewise a species of this disease, which is called the *spurious* or bastard pleurify, in which the pain is more external, and chiefly affects the muscles be-

tween the ribs. The pleurify prevails among labouring people, cf-pecially fuch as work without doors, and are of a fanguine conflitu-

tion. It is most frequent in the spring season.

CAUSES .- The pleurify may be occasioned by whatever obftructs the perspiration; as cold northerly winds; drinking cold liquors when the body is hot; fleeping without doors on the damp ground; wet clothes; plunging the body into cold water, or expoling it to the cold air, when covered with fweat, &c. It may likewife be occasioned by drinking strong liquors; by the stoppage of usual evacuations; as old ulcers, iffnes, sweating of the feet or hands, &c. the fudden striking in of any eruption, as the itch, the measles, or the small-pox. Those who have been accustomed to bleed at a certain season of the year, are apt, if they neglect it, to be feized with a pleurify. Keeping the body too warm by means of fire, clothes, &c. renders it more liable to this disease. A pleurify may likewise be occasioned by violent exercise, as running, wrefiling, leaping, or by supporting great weight, blows on the breaft, &c. A bad conformation of the body renders persons more liable to this disease, as a narrow chest, a straitness of the arteries of the pleura. &c

SYMPTOMS.—This, like most other fevers, generally begins with chilliness and shivering, which are followed by hear, thirst, and restlessiness. To these succeeds a violent pricking pain in one of the sides among the ribs. Sometimes the pain extends towards the back-bone, sometimes towards the forepart of the breast, and at other times towards the shoulder-blades. The pain is generally

most viol at when the patient draws his breath.

The pulse in this disease is commonly quick and hard, the urine high coloured; and if blood be let, it is covered with a tough crust, or buffy coat. The patient's spittle is at first thin, but afterwards

it becomes groffer, and is often streaked with blood.

REGIMEN.—Nature generally endeavours to carry off this difease by a critical discharge of blood from some part of the body, by expectoration, sweat, loose stools, thick urine, or the like. We ought therefore to second her intentions by lessening the force of the circulation, relaxing the vessels, diluting the humours, and pro-

moting expectoration.

For these purposes the diet, as in the former disease, ought to be cool, slender, and disturing. The patient must avoid all food that is viscid, hard of digestion, or that affords much nourishment: as slesh, butter, cheese, eggs, milk, and also every thing that is of a heating nature. His drink may be whey, or an infusion of pestoral and balsamic vegetables\*.

<sup>\*</sup> See Appendix, Pectoral insufion.

Burley-water, with a little honey or jelly of currants mixed with it, is likewife a very proper drink in this difeafe. It is made by boiling an ounce of pearl barley in three English pints of water to two pints, which must afterwards be strained. The decoction of figs, raisins, and barley, recommended in the preceding disease, is here likewife very proper. These and other diluting liquors are not to be drank in large quantities at a time; but the patient ought to keep continually sipping them, so as to render his mouth and throat always moist. All his food and drink should be taken a little warm.

The patient should be kept quiet, cool, and every way easy, as directed under the foregoing disease. His sectand hands ought daily to be bathed in luke-warm water; and he may sometimes sit up

in hed for a short space in order to relieve his head,

MEDICINE.—Almost every person knows, when a sever is attended with a violent pain of the side, and a quick hard pulse, that bleeding is necessary. When these symptoms come on, the sooner this operation is performed the better; and the quantity at first must be pretty large, provided the patient is able to bear it. A large quantity of blood let once, in the beginning of a pleurisy, has a much better effect than repeated small bleedings. A man may lose twelve or sources of blood as soon as it is certainly known that he is seized with a pleurisy. For a younger person or one of a delicate constitution, the quantity must be less.

If, after the first bleeding, the stirch, with the other violent symptoms, should still continue, it will be necessary, at the distance of twelve or eighteen hours, to let eight or nine ounces more. If the symptoms do not then abate, and the blood shews a strong busy coat, a third or even a fourth bleeding may be requisite. If the pain of the side abates, the pulse becomes softer, or the patient begins to spit freely, bleeding ought not to be repeated. This operation is seldom necessary after the third or fourth day of the sever, and ought not then to be performed, unless in the most urgent circum-

stances.

The blood may be many ways attenuated without bleeding. There are likewise many things that may be done to case the pain of the side without this operation, as somenting, blistering, &c. Fomentations may be made by boiling a handful of the flowers of elder, camomile, and common mallows, or any other soft vegetables, in a proper quantity of water. The herbs may be either put into a slannel bag, and applied warm to the side, or somels may be dipped in the decoction, afterwards wrung out, and applied to the part affected, with as much warmth as the patient can casily bear. As the cloths grow cold, they must be changed, and great care taken that the patient do not eatch cold. A bladder may be filled with

warm milk and water, and applied to the fide, if the above method of fomenting be found inconvenient. Fomentations not only case the pain, but relax the vessels, and prevent the stagnation of the blood and other humours. The side may likewise be frequently rubbed with a little of the volatile liniment\*.

Topical bleeding has often a very good effect in this disease. It may either be performed by applying a number of leeches to the part affected, or by cupping, which is both a more certain and expediti-

ous method than the other.

Leaves of various plants might likewise be applied to the patient's side with advantage. I have often seen great benefit from young cabbage-leaves applied warm to the side in a pleurisy. These not only relax the parts, but likewise draw off a little moisture, and may prevent the necessity of blistering plasters; which however,

when other things fail, must be applied.

If the stitch continues after repeated bleedings, fomentations, &c. a blistering plaster must be applied over the part affected, and suffered to remain for two days. This not only procures a discharge from the side, but takes off the spasm, and by that means assists in removing the carse the disease. To prevent a stranguary when the blistering plaster is on, the patient may drink freely of the Arabic emulsiont.

If the patient is costive, a clyster of thin water-gruel or of barley-water, in which a handful of mallows, or any other emolient yegetable has been boiled, may be daily administered. This will not only empty the bowels, but have the effect of a warm fomentation applied to the inferior viscera, which will help to make a derivation from the breast.

The expectoration may be promoted by sharp, oily, and mucliaginous medicines. For this purpose an ounce of the oxymel, or the vinegar of squills, may be added to six ounces of the pectoral decoc-

tion, and two table-spoonfuls of it taken every two hours.

Should the fquill difagree with the flomach, the oily emultion may be administered; or, in place of it, two ounces of the oil of sweet almonds, or oil of olives, and two ounces of the syrup of violets, may be mixed with as much sugar-candy powdered, as will make an electuary of the consistance of honey. The patient may take a tea-spoonful of this frequently, when the cough is troublesome. Should oily medicines prove nauseous, which is semetimes the case, two table-spoonfuls of the solution of gum ammoniac in barley-water may be given three or four times a days.

<sup>\*</sup> See Appendix, Volatile liniment.
+ See Appendix, Arabic emultion.
+ See Appendix Oily emultion.

<sup>#</sup> See Appendix, Oily emultion.
§ See Appendix, Solution of gum ammoniac.

If the patient does not perspire, but has a burning heat upon his skin, and passes very little water, some small doses of purified nitre and camphire will be of use. Two drams of the former may be rubbed with five or six grains of the latter in a mortar, and the whole divided into six doses, one of which may be taken every sive

or fix hours, in a little of the patient's ordinary drink.

We shall only mention one medicine more, which some recken almost a specific in the pleurify, viz. the decocion of the scheka rattle-snake root\*. After bleeding and other evacuations have been premised, the patient may take two, three, or four table-spoonfuls of this decocion, according as his stomach will bear it, three or four times a day. If it should occasion vomiting, two or three ounces of simple cinnamon water may be mixed with the decocion here directed, or it may be taken in smaller doses. As this medicine promotes perspiration and urine, and likewise keeps the body easy, it may be of some service in a pleurify, or any other instantantion of the breast.

No one will imagine that these medicines are all to be used at the same time. We have mentioned different things, on purpose that people may have it in their power to choose; and likewise, that when one cannot be obtained, they may make use of another. Different medicines are no doubt necessary in the different periods of a disorder; and where one fails of success, or disagrees with the pa-

tient, it will be proper to try another.

What is called the crifis, or height of the fever, is sometimes attended with very alarming symptoms, as difficulty of breathing, an irregular pulse, convulsive motions, &c. These are apt to frighten the attendants, and induce them to do improper things, as bleeding the patient, giving him strong stimulating medicines, or the like. But these are only the struggles of nature to overcome the disease, in which she ought to be assisted by plenty of diluting drink, which is then peculiarly necessary. If the patient's strength however be much exhausted by the disease, it will be necessary at this time to support him with frequent small draughts of wine-whey, negus, or the like.

When the pain and fever are gone, it will be proper after the patient has recovered sufficient strength, to give him some gentle purges, as those directed towards the end of the acute continual sever. He ought likewise to use a light diet, of easy digestion, and his drink should be butter-milk, whey, and other things of a cleansing

nature.

<sup>\*</sup> See Appendix, Decoction of seneka root.

OF THE BASTARD PLEURISY.

That species of pleurify which is called the bostard or spurious, generally goes off by keeping warm for a few days, drinking plemy

of diluting liquers, and observing a cooling regimen.

It is known by dry cough, quick pulfe, and a difficulty of lying on the affected fide, which last does not always happen in the true pleurify. Sometimes indeed this disease proves obtainate, and requires bleeding, with cupping, and scarifications of the part affected. These, together with the use of nitrons and other cooling medicines, seldom sail to effect a cure.

#### OF THE PARAPHRENITIS.

The paraphrenitis, or inflammation of the diaphragm, is so nearly connected with the pleurify, and resembles it so much in the manner of treatment, that it is scarce necessary to consider it as a

separate disease.

It is attended with a very acute fever, and an extreme pain in the part affected, which is generally augmented by coughing, fneezing, drawing in the breath, taking food, going to flool, making water, &c. Hence the patient breathes quick, and draws in his bowels to prevent the motion of the diaphragm; is reflicfs, anxious, has a dry cough, a hiccough, and often a delirium. A convulfive laugh, or rather a kind of involuntary grin, is no uncommon fymptom of this difeafe.

Every method must be taken to prevent a suppuration, as it is impossible to save the patient's life when this happens. The regimen and medicine are in all respects the same as in the pleurify. We shall only add, that in this disease emollient clysters are peculiarly useful, as they relax the bowels, and by that means make a derivation from the part affected.

#### C H A P. XVII

## OF A PERIFNEUMONY, OR INFLAMMATION OF THE LUNGS.

As this difease affects an organ which is absolutely necessary to life, it must always be attended with danger. Persons who abound with thick blood, whose shores are tense and rigid, who seed upon gross aliment, and drink strong viscid liquors, are must liable to a peripheumony. It is generally sated to shoke who have a statement, or narrow chest, and to such as are assisted with an assume especially in the decline of life. Sometimes the insample ion reaches to one lobe of the lungs only, at other times the whole of the er-

gan is affected; in which case the discase can hardly fail to prove fatal.

When the disease proceeds from a viscid pituitous matter obstructing the vessels of the lungs it is called a spurious or bastard peripueuniony. When it arises from a thin acrid defluxion on the lungs, it

is denominated a catarrhal peripneumony, &c.

CAUSES.—An inflammation of the lungs is fometimes a primary difease, and sometimes it is the consequence of other diseases, as a quinfey, a pleurify, &cc. It proceeds from the same causes as the pleurify, viz. an obstructed perspiration from cold, wet clothes, &c. or from an increased circulation of the blood by violent exercise, the use of spiceries, ardent spirits, and such like. The pleurify and peripneumony are often complicated; in which case the disease is called a pluro-peripneumony.

SYMPTOMS.—Most of the symptoms of a pleurify likewise attend an inflammation of the lungs; only in the latter the pulse is more soft, and the pain less acute; but the difficulty of breathing,

and oppression of the breast, are generally greater.

REGIMEN.—As the regimen and medicine are in all respects the same in the true peripneumony as in the pleurify, we shall not here repeat them, but refer the reader to the treatment of that discase. It may not however be improper to add, that the aliment ought to be more slender and thin in this than in any other inflammatory disease. The learned Dr. Arbuthnot afferts, that even common whey is sufficient to support the patient, and that decoctions of barley and infusions of fennel roots in warm water, with milk, are the mest proper both for drink and nourishment. He likwise recommends the steam of warm water taken in by the breath, which ferves as a kind of internal somentation, and helps to attenuate the impacted humours. If the patient has loose stools, but is not weakened by them, they are not to be stopped, but rather promoted by the use of emollient clysters.

It has already been observed, that the spurious or bastard peripneumony is occasioned by a viscid pituiteus matter obstructing the vessels of the lungs. It commonly attacks the old, infirm, and

phlegmatic, in winter and wet feafons.

The patient at the beginning is cold and hot by turns, has a fmall quick pulse, seels a sense of weight upon his breast, breathes with difficulty, and sometimes compleins of a pain and giddiness of his head. His uring is usually pale, and his colour very little changed.

The diet in this, as well as in the true periprenmony, must be very slender, as weak broths, sharpened with the juice of orange or lemon, and such like. His drink may be thin water gruel sweetened with honey, or a decoction of the roots of fennel, liquorice, and

quick grafs. An ounce of each of these may be boiled in three English pints of water to a quart, and sharpened with a little currant

jelly, or the like.

Bleeding and purging are generally proper at the beginning of this disease; but if the patient's spittle is pretty thick, or well concolled, neither of them are necessary. It will be sufficient to affish the expectoration by some of the sharp medicines recommended for that purpose in the plenrify, as the solution of gum-ammoniac with oxymel of squills, &c. Plistering plasters have generally a good effect, and ought to be applied pretty early.

If the patient does not spit, he must be bled according as his strength will permit, and have a gentle purge administered. Afterwards his body may be kept open by clysters, and the expectoration promoted, by taking every four hours two table-spoonfuls of the so-

lution mentioned above.

When an inflammation of the breast does not yield to bleeding, blistering, and other evacuations, it commonly ends in a suppuration, which is more or less dangerous, according to the part where it is situated. When this happens in the pleura, it sometimes breaks outwardly, and the matter is discharged by the wound.

When the suppuration happens within the substance or body of the lungs, the matter may be discharged by expectoration; but if the matter floats in the cavity of the breast, between the pleura and the lungs, it can only be discharged by an incision between the ribs.

If the patient's strength does not return after the inflammation is to all appearance removed; if his pulse continues quick though soft, his breathing difficult and oppressed; if he has cold shivering at times, his cheeks stushed, his lips dry; and if he complains of thirst, and want of appetite, there is reason to fear a suppuration, and that a phthis or consumption of the lungs will ensue. We shall therefore next proceed to consider the proper treatment of that disease.

#### C H A P. XVIII.

#### OF CONSUMPTIONS.

CONSUMPTION is a wasting or decay of the whole bedy from an older, tubercles, or concretions of the lungs, an empyeroa, a nervous grouphy, or a cachexy.

Do Arbuthnot observes, that in his time consumptions made up one tenth-part of the billso, mortality in and about London. There is reason to believe they have rather increased since; and we know from experience, that they are not less fatal in some other towns of England than in London.

Young persons, between the age of fifteen and thirty, of a slender make, long neck, high shoulders, and flat breast, are most lia-

ble to this disease.

Confumptions prevail more in England than in any other part of the world; owing perhaps to the great use of animal food and malt liquors, the general application to sedentary employments, and the great quantity of pit-coal which is there burnt; to which we may add the perpetual changes in the atmosphere, or variableness of the weather.

CAUSES—It has already been observed, that an inflammation of the breast often ends in an imposshume; consequently whatever disposes people to this disease, must likewise be considered as a cause

of confumption.

Other diseases, by vitiating the habit, may likewise occasion confumptions; as the scurvy, the scrophula, or king's evil, the venere-

al disease, the asthma, small-pox, measles, &c.

As this disease is seldom cured, we shall endeavour the more particularly to point out its causes, in order that people may be enabled

to avoid it. These are:

Confined or unwholesome air. When this fluid is impregnated with the fumes of metals or minerals, it proves extremely hurtful to the lungs and often corrodes the tender vessels of that necessary organ.

\_\_\_\_ Violent passions, exertions, or affections of the mind; as grief, disappointment, anxiety, or close application to the study of

abitruse arts or sciences.

Great evacuations; as fweating, diarrhous, diabetes, excessive venery, fluor albus, an over-charge of the menstrual flux, giving suck too long, &c.

The fudden floppage of customary evacuations; as the bleeding piles, fweating of the feet, bleeding at the nose, the menses,

isfines, ulcers, or emptions of any kind.

—— Injuries done to the lungs, calculi, &c. I lately faw the fymtoms of a phthifis occasioned by a small bone sticking in the branchæ. It was afterwards vomited along with a considerable quantity of purulent matter, and the patient, by a proper regimen, and the use of the Peruvian bark, recovered.

---- Making a sudden transition from a hot to a very cold climate,

change of apparel, or whatever greatly lessens the perspiration.

Frequent and excessive debaucheries. Late watching and drinking strong liquors, which generally go together, can hardly full to destroy the lungs. Hence the bon companion generally falls a factasize to this disease.

Infection. Confumptions are likewise caught by sleeping with the diseased; for which reason this should be carefully avoid. It cannot be of great benefit to the sick, and must hurt those in health.

— Occupations in life. Those artificers who fit much, and are constantly leaning forward, or pressing upon the stomach and breast, as cutlers, taylors, shoe-makers, seamstresses, &c. often die of consumptions. They likewise prove fatal to singers, and all who have occasion to make frequent and violent exertions of the lungs.

Cold. More confumptive patients date the beginning of their caforders from wet feet, damp beds, night air, wet clothes, or catching cold after the body had been heated, than from all other

aufes.

Sharp, faline, and aromatic aliments, which heat and inflame the

blood, are likewise frequently the cause of consumptions.

We shall only add, that this disease is often owing to an hereditary taint, or a scrophulous habit; in which case it is generally incurable.

SYMPTOMS.—This difease generally begins with a dry cough, which often continues for some months. If a disposition to vomit after eating be excited by it, there is still greater reason to fear an approaching consumption. The patient complains of a more than usual degree of heat, a pain and oppression of the breast, especially after motion; his spittle is of a fabrish taste, and sometimes mixed with blood. He is apt to be sad; his appetite is bad, and his thirst great. There is generally a quick, soft, small pulse; though sometimes the pulse is pretty sull, and rather hard. These are the common symptoms of a beginning consumption.

Afterwards the patient begins to spit a greenish, white, or bloody matter. His body is extenuated by the hectic fever, and colliquative sweats, which mutually succeed one another, viz. the one towards night, and the other in the morning. A looseness, and an excessive discharge of urine, are often troublesome symptom at this time, and greatly weaken the patient. There is a burning heatin the palms of the hands, and the face generally slushes after eating; the singers become remarkably small, the nails are bent inwards, and

the hairs fall off.

At last the swellings of the feet and legs, the total loss of strength, the sinking of the eyes, the distinctive of swallowing, and the coldness of the extremities, show the immediate approach of death, which however the patient feldom believes to be so near. Such is the usual progress of this satal disease, which, if not early checked, commonly sets all medicine at defiance.

REGIMEN.—On the first appearance of a consumption, if the patient lives in a large town, or any place where the air is confined, he ought immediately to quit it, and to make choice of a fituation in the country, where the air is pure and free. Here he must not remain inactive, but take every day as much exercise as he can bear.

The best method of taking exercise is to ride on horse-back, as this gives the body a great deal of motion without much satigue. Such as cannot bear this kind of exercise, must make use of a carriage. A long journey, as it amuses the mind by a continual change of objects, is greatly preserable to riding the same ground over and over. Care however must be taken to avoid catching cold from wet clothes, damp beds, or the like. The patient ought always to finish his ride in the morning, or at least before dinner; otherwise it will oftener do harm than good.

It is pity those who attend the sick seldom recommend riding in this disease, till the patient is either unable to bear it, or the malady has become incurable. Patients are likewise apt to trisle with every thing that is in their own power. They cannot see how one of the common actions of life should prove a remedy in an obstinate disease, and therefore they reject it, while they greedily hunt after relief from medicine, merely because they do not understand it.

Those who have strength and courage to undertake a pretty long voyage, may expect great advantage from it. This, to my knowledge, has frequently cured a consumption after the patient was, to all appearance, far advanced in that disease, and where medicine had proved ineffectual. Hence it is reasonable to conclude, that if a voyage were undertaken in due time, it would seldom fail to perform a cure\*.

Such as try this method of cure ought to carry as much fresh provisions along with them as will serve for the whole time they are at fea. As milk is not easily obtained in this situation, they ought to live upon fruits, and the broth of chickens, or other young animals which can be kept alive on board. It is searce necessary to add, that such voyages should be undertaken, if possible, in the mildest season, and that they ought to be towards a warmer climate.

† Though I do not remember to how form one instance of a genuine

<sup>\*</sup> Two things chiefly operate to prevent the benefits which would arise from failing. The one is, that physicians seldom order it till the disease is too far advanced; and the other is, that they seldom order a voyage of sufficient length. A patient may receive no benefit by crossing the channel, who, should be cross the Atlantic, might be completely cured. Indeed we have reason to believe, that a voyage of this hind, if taken in due time, would seldom fail to cure a consumption.

Those who have not courage for a long voyage may travel into a more southern climate, as the south of France, Spain, or Portugal; and if they find the air of these countries agree with them, they

should continue there at least till their health be confirmed.

Next to proper air and exercise, we would recommend a due attention to diet. The patient should eat nothing that is either heating or hard of digestion, and his drink must be of a soft and cooling nature. All the diet ought to be calculated to lessen the acrimony of the humours, and to nourish and support the patient. For this purpose he must keep chiefly to the use of vegetables and milk. Milk alone is of more value in this disease than the whole materia medica.

Affes' milk is commonly reckened preferable to any other; but it cannot always be obtained; befides it is generally taken in very small quantity; whereas, to produce any effects, it ought to make a confiderable part of the patient's diet. It is hardly to be expected, that a jill or two of affes' milk, drank in the space of twenty-tour hours, thould be able to produce any confiderable change in the humours of an adult; and when people do not perceive its effects soon, they lose hope, and so leave it off. Hence it happens that this medicine, however valuable, very seldom performs a cure. The reason is obvious; it is commonly used too late, is taken in too small quantities, and is not duly persisted in.

I have known very extraordinary effects from affes' milk in obflinate cought, which threatened a confumption of the lungs, and do verily believe, if used at this period, that it would seldom seil; but if it be delayed till an user is formed, which is generally the

case, how can it be expected to succeed?

Asses' milk ought to be drank, if possible, in its natural warmth, and by a grown person, in the quantity of half an English pint at a time. Instead of taking this quantity night and morning only, the patient ought to take it sour times, or at least thrice a-day, and to eat a little light bread along with it, so as to make it a kind of meal.

If the milk should bappen to purge, it may be mixed with eld conserve of roses. When that connot be obtained, the powder of crabs' claws may be used in its stead. Asses' milk is usually ordered to be drank warm in bed; but as it generally throws the patient into a sweat when taken in this way, it would perhaps be better to give it after he rises.

Some extraordinary cures in confumptive cases have been performed by women's milk. Could this be obtained in sufficient

confumption of the lungs cured by medicine, set I have known a West-India voyage work wonders in that die Afel Mynder.

quantity, we would recommend it in preference to any other. It is better if the patient can fuck it from the breaft, than to drink it afterwards. I knew a man who was reduced to fuch a degree of weakness in a consumption, as not to be able to turn himself in bed. His wife was at that time giving fuck, and the child happening to die, he fucked her breafts, not with a view to reap any advantage from the milk, but to make her easy. Finding himself however greatly benefitted by it, he continued to fuck her till he became perfeetly well, and is at prefent a strong and healthy man.

Some prefer butter-milk to any other, and it is indeed a very valnable medicine, if the stomach be able to bear it. It does not agree with every person at first; and is therefore often laid aside without a fufficient trial. It should at first be taken sparingly, and the quantity gradually increased, until it comes to be almost the sole food. I never knew it succeed unless where the patient almost lived upon it.

Cows' milk is most readily obtained of any, and though it be not fo easily digested as that of assess or mares, it may be rendered lighter by adding to it an equal quantity of barley-water, or allowing it to stand for some hours, and afterwards taking off the cream. If it should, notwithstanding, prove heavy on the stomach, a small quantity of brandy or rum with a little fugar, may be added, which will render it both more light and nourishing.

It is not to be wondered, that milk should for some time disagree with a stomach that has not been accustomed to digest any thing but flesh and strong liquors, which is the case with many of those who fall into confumptions; we do not however advise those who have been accustomed to animal food and strong liquors, to leave them off all at once. This might be dangerons. It will be necessary for fuch to eat a little once a-day of the fielh of fome young animal, or rather to use the broth made of chickens, veal, lamb, or such like. They ought likewife to dring a linle wine made into negus, or diluted with twice or thrice its quantity of water, and to make it gradually weaker till they can leave it off altogether.

These must be used only as preparatives to a diet confishing chiefly of milk and vigetables, which the fooner the patient can be brought to bear, the better. Rice and milk, or barley and milk, boiled with a little fugar, is very proper food. Ripe fruits roafted, baked, or boiled, are likewise proper, as goose or current berry tarts, apples roafted, or boiled in milk, &c. The jellies, conferves, preferves, &c. of ripe subacid fruits, ought to be enten plentifully, as the jelly of currants, conferve of roles, preserved plumbs,

cherries, &c.

Wholesome air, proper exercise, and a diet consisting chiefly of these and other vegetables, with milk, is the only course that con be depended on in a beginning confumption. If the patient has

strength and sufficient resolution to persist in this course, he will

feldom be disappointed of a cure.

In a populous town in England\*, where confumptions are very common, I have frequently feen confumptive patients, who had been fent to the country with orders to ride and live upon milk and vegetables, return in a few months quite plump and free from any complaint. This indeed was not always the case, especially when the disease was herediarry, or far advanced; but it was the only method in which success was to be expected; where it failed, I never knew medicing succeed.

If the patient's strength and spirits flag, he must be supported by strong broths, jellies, and such like. Some recommend shell-fish in this disorder, and with some reason, as they are nourishing and restorative. All the food and drink ought however to be taken in small quantities, lest an overcharge of fresh chyle should oppress the lungs, and too much accelerate the circulation of the blood.

The patient's mind ought to be kept as easy and cheerful as possible. Consumptions are often occasioned, and always aggravated, by a melancholy cast of mind; for which reason music, cheerful company, and every thing that inspires mirth, are highly beneficial. The patient ought seldom to be left alone, as brooking over his calamities is sure to render him worse.

MEDICINE.—Though the cure of this disease depends chiefly upon regimen and the patient's own endeavours, yet we shall mention a sew things which may be of service in relieving some of the

more violent symptoms.

In the first stage of a consumption, the cough may sometimes be appealed by bleeding; and the expectoration may be promoted by the following medicines. Take sress squares of an ounce; and powdered cardamum seeds, of each a quarter of an ounce; beat them together in a mortar, and if the mass proves too hard for pills, a little of any kind of syrup may be added to it. This may be formed into pills of a moderate size, and some or sive of them taken twice or thrice a-day, according as the patient's stemach will bear them.

The lag ammoniacum, or milk of grim-arrimeniac, as it is called, is likewife a proper medicine in this flage of the difcase. It may be used as directed in the pleurify.

A mixture made of equal parts of lemon juice, fine honey, and fyrup of poppies, may likewife be used. Four ounces of each of

\* Sheffield.

<sup>†</sup> I have often known persons of a consumptive labit, where the symptoms were not violent, reap great benefit to m the use of explens. They generally ato them read, and dreak the joine along with them.

thele may be simmered together in a sauce-pan, over a gentle fire, and a table-spoonful of it taken at any time when the cough is troublesome.

It is common in this stage of the disease to load the patient's stomach with oily and balsamic medicines. These, instead of removing the cause of the disease, tend rather to increase it, by heating the blood, while they pall the appetite, relax the solids, and prove every way hurtful to the patient. Whatever is used for removing the cough, besides riding and other proper regimen, ought to be medicines of a sharp and cleansing nature; as oxymel, syrup of lemon, &c.

Acids feem to have peculiarly good effects in this discase; they both tend to quench the patient's thirst and to cool the blood. The vegetable acids, as apples, oranges, lement, &c. appear to be most proper. I have known patients suck the juice of several lemons every day with manifest advantage, and would for this reason recommend acid vegetables to be taken in as great quantity as the stomach

will bear them.

For the patient's drink, we would recommend infusions of the bitter plants, as ground ivy, the lesser centaury, camomile flowers, or water trefoil. These intusions may be drank at pleasure. They strengthen the stomach, promote digestion, and at the same time answer all the purposes of dilution, and quench thirst much better than things that are luscious or sweet. But if the patient spits blood, he ought to use, for his ordinary drink, insusions or decoctions of the vulnerary roots, plants, &c\*.

There are many other mucilaginous plants and feeds, of a healing and agglutinating nature, from which decoctions or infusions may be prepared with the same intention; as the orches, the quinceseed, coltssoot, linfeed, sasparilla, &c. It is not necessary to mention the different ways in which these may be prepared. Simple infusion or boiling is all that is necessary, and the dose may be at

discretion.

The conserve of roses is here peculiarly proper. It may either be put into the decoction above prescribed, or eaten by itself. No benefit is to be expected from trisling doses of this medicine. I never knew it of any service, unless where three or four ownces at least were used daily for a considerable time. In this way I have seen it produce very happy effects, and would recommend it wherever there is a discharge of blood, from the lungs.

When the spitting up of gross matter, oppression of the breast, and the hectic symptoms, show that an imposshume is formed in the lungs, we would recommend the Peruvian bank, that being the only

<sup>\*</sup> See Appendix, Vulnerary decoction.

drug which has any chance to counteract the general tendency which the humours then have to put refaction.

An ounce of the bark in powder may be divided into eighteen or twenty doses, of which one may be taken every three hours through

the day, in a little fyrup, or a cup of horebound tea.

If the bark should happen to purge, it may be made into an electuary, with the conferve of roses, thus: Take old conferve of roses a quarter of a pound, Peruvian bark in powder an ounce, syrup of orange or lemon, as much as will make it of the consistence of honey. This quantity will serve the patient four or five days, and may be repeated as there is occasion.

Such as cannot take the bark in substance, may insuse it in cold water. This seems to be the best menstruum for extracting the virtues of the drug. Half an ounce of bark in powder may be insused for twenty-four hours in half an Enlgish pint of water. Afterwards let it be passed through a fine strainer, and an ordinary tea-

cup-full of it taken three or four times a-day.

We would not recommend the bark while there are any symptoms of an inflammation of the breast: but when it is certainly known that matter is collected there, it is one of the best medicines which can be used. Few patients indeed have resolution enough to give the bark a fair trial at this period of the disease, otherwise we have reason to believe that some benefit might be reaped from it.

When it is evident that there is an imposthume in the breast, and the matter can be neither spit up nor carried off by absorption, the patient must endeavour to make it break inwardly, by drawing in the steams of warm water or vinegar with his breath, coughing, laughing, or bawling aloud, &c. When it happens to burst within the lungs, the matter may be discharged by the mouth. Sometimes indeed the bursting of the vomica occasions immediate death, by suffocating the patient. When the quantity of matter is great, and the patient's strength exhausted, this is commonly the case. At any rate the patient is ready to fall into a swoon, and should have volatile salts or spirits held to his nose.

If the matter discharged be thick, and the cough and breathing become easier, there may be some hopes of a cure. The diet at this time ought to be light, but restorative, as chicken broths, sago gruel, rice milk, &c. the drink, butter-milk, or whey, sweetened with honey. This is likewise a proper time for using the Peru-

vian bank, which may be taken as directed above.

If the vomica or imposshume should discharge itself into the cavity of the breast, betwixt the pleura and the lungs, there is no way of getting the matter out but by an incision, as has already been observed. As this operation must always be performed by a surgeon, it is not necessary here to describe it. We shall only add, that it is

not so dreadful as people are apt to imagine, and that it is the only

chance the patient in this case has for his life.

A NERVOUS CONSUMPTION is a wasting or decay of the whole body, without any confiderable degree of fever, cough, or difficulty of breathing. It is attended with indigestion, weakness, and want of appetite, &c.

Those who are of a fretful temper, who indulge in spiritous liquors, or who breathe an unwholesome air, are most liable to this

disease.

We would chiefly recommend, for the cure of nervous confumptions, a light and nourishing diet, plenty of exercise in a free open air, and the use of such bitters as brace and strengthen the stomach; as the Peruvian bark, gentian root, camomile, horehound, &c. These may be insufed in water or wine, and a glass of it drank frequently.

It will greatly affift the digestion, and promote the cure of this disease, to take twice a day twenty or thirty drops of the elixir of viriol in a glass of wine or water. The chalybeate wine is likewise an excellent medicine in this case. It strengthens the solids, and powerfully assists Nature in the preparation of good blood\*.

Agreeable amusements, cheerful company, and riding about, are however preferable to all medicines in this disease. For which reason when the patient can afford it, we could recommend a long journey of pleasure, as the most likely means to restore his health.

What is called a *fymtomatic confumption* cannot be cured without first removing the disease by which it is occasioned. Thus, when a consumption proceeds from the scrophula or king's-evi!, from the scurvy, the asthma, the venereal disease, &c. a due attention must be paid to the malady from whence it arises, and the regimen and

medicine directed accordingly.

When excessive evacuations of any kind occasion a consumption, they must not only be restrained, but the patient's strength must be restored by gentle exercise, nourishing diet, and generous cordials. Young and delicate mothers often tall into consumptions, by giving suck too long. As soon as they percieve their strength and appetite begin to fail, they ought immediately to wean the child, or provide another nurse, otherwise they cannot expect the cure.

Before we quit this subject, we would earnestly recommend it to all, as they wish to avoid consumptions, to take as much exercise without doors as they can, to avoid unwholesome air, and to study sobriety. Consumptions owe their present increase not a little to the the fathion of sitting up late, eating hot suppers, and spending every evening over a bowl of hot punch or other strong liquors.

<sup>\*</sup> See Appendix, Chalybeate wine.

These liquors, when too freely used, not only hurt the digestion, and spoil the appetite, but heat and inflame the blood, and set the whole constitution on fire.

#### C H A P. XIX.

## OF THE SLOW OR NERVOUS FEVER.

ERVOUS fevers have increased greatly of late years in this island, owing doubtless to our different manner of living, and the increase of sedentary employments; as they commonly attack persons of a weak relaxed habit, who neglect exercise, eat little so-

lid food, findy hard, or indulge in spiritous liquors.

CAUSES.—Nervous fevers may be occasioned by whatevet depredes the spirits, or impoverishes the blood; as grief, fear, anxiety, want of sleep, intense thought, living on poor watery diet, unripe fruits, cucumbers, melons, mushroons, &c. They may likewise be occasioned by damp, confined, or unwholesome air. Hence they are very common in rainy seasons, and prove most fatal to those who live in dirty low houses, crowded streets; hospitals, jails, or such like places.

Persons whose constitutions have been broken by excessive venery, frequent salvations, too free an use of pargative medicines, or any

other excessive evacuations, are most liable to this disease.

Keeping on wet clothes, lying on the damp ground, excessive fatigue, and whatever obstructs the perspiration, or causes a spasmodic stricture of the solids, may likewise occasion nervous severs. We shall only add, frequent and great irregularities in diet. Too great abstinence, as well as excess, is hurtful. Nothing tends so much to preserve the body in a sound state as a regular diet; nor can iany thing contribute more to occasion severs of the worst kind than its opposite.

SYMPTOMS.—Low spirits, want of appetite, weakness, weariness after motion, watchfulness, deep sighing, and dejection of mind, are generally the forcrunners of this disease. These are succeeded by a quick low pulse, a dry tongue without any consider-

able thirst, chilliness and flushing in turns, &c.

After some time the patient complains of a giddiness and pain of the head, has a nausea, with reachings and vomiting; the pulse is quick, and sometimes intermitting; the urine pale, resembling dead small-beer, and the breathing is difficult, with oppression of the breast, and slight alienations of mind.

If towards the ninth, tenth, or twelfth day, the tongue becomes more moift, with a plentiful fpitting, a gentle purging, or a moift,

ure upon the skin; or if a suppuration happens in one or both ears, or large pultules break out about the lips and nofe, there is reason to

hope for a favourable crisis.

But if there is an excessive loofeness, or wasting sweats, with frequent fainting fits; if the tongue, when put out, trembles exceffively, and the extremities feel cold, with a fluttering or flow creeping pulse; if there is a starting of the tendons, an almost total loss of the fight and hearing, and an involuntary discharge by stool and urine, there is great reason to fear that death is approaching.

REGIMEN.—It is very necessary in this disease to keep the patient cool and quiet. The least motion would fatigue him, and will be apt to occasion weariness, and even faintings. His mind ought not only to be kept easy, but soothed and comforted with the hopes of a speedy recovery. Nothing is more hurtful in low fevers of this kind than prefenting to the patient's imagination gloomy or frightful ideas. These of themselves often occasion nervous fevers, and it is not to be doubted but they will likewife aggravate them.

The patient must not be kept too low. His strength and spirits ought to be supported by nourishing diet, and generous cordials. For this purpose his gruel, panado, or whatever food he takes, must be mixed with wine according as the fymptoms may require. Pretty strong wine-whey, or small negus, sharpened with the juice of orange or lemon, will be proper for his ordinary drink. Mustard-whey is likewise a very proper driak in this sever, and may be rendered an excellent cordial medicine by the addition of a prop-

er quantity of white wine\*.

Wine in this disease, if it could be obtained genuine, is almost the only medicine that would be necessary. Good wine possesses all the virtues of the cordial medicines, while it is free from many of their bad qualities. I fay good wine: for however common this article of luxury is now become, it is rarely to be obtained genuine, especially by the poor, who are obliged to purchase it in small quantities.

I have often feen patients in low nervous fevers, where the pulse could harldly be felt, with a constant delirium, coldness of the extremities, and almost every other mortal symptom, recover by using in whey, greel, and neger, a bottle or two of strong wine every day. Good old found claret is the best, and may be made into ne-

gus, or given by itself, as circumstances require.

In a word, the great aim in this difease is to support the patient's strength, by giving him frequently small quantities of the above, or other drinks of a warm and cordial nature. He is not

<sup>\*</sup> See Appendix, Mustard-whey.

however to be over-heated either with liquor or clothes; and his

food ought to be light, and given in small quantities.

MEDICINE.—Where a nausea, load, and sickness at stomach, prevail at the beginning of the sever, it will be necessary to give the patient a gentle vomit. Fifteen or twenty grains of ipecacuanha in fine powder, or a sew spoonfuls of the vemiting julep\*, will generally answer this purpose very well. This new be repeated any time before the third or fourth day, if the above symptoms continue. Vomits not only clean the stomach, but, by the general shock which they give, promote the perspiration, and have many other excellent effects in flow severs, where there are no signs of inflammation, and nature wants routing.

Such as dare not venture upon a vomit may clean the bowels by a finall dofe of Turkey thubarb, or an intufion of fenna and

manna

In all fevers, the great point is to regulate the fymptoms, so as to prevent them from going to either c. one. Thus, in fevers of the inflammatory kind, where the force of the circulation is too great, or the blood dense, and the fibres to rigid, bleeding and other evacuations are necessary. But in nervous fevers, where nature slags, where the blood is vapid and poor, and the folids released, the lancet must be spared, and wine, with other cordials, plentifully administered.

It is the more necessary to caution people against bleeding in this disease, as there is generally at the beginning an universal stricture upon the vessel, and sometimes an oppression and dissiculty of breathing, which suggest the idea of a plethora, or too great a quantity of blood. I have known even some of the faculty deceived by their own seelings in this respect, so far as to insist upon being bled, when it was evident from the consequences that the oper-

ation was improper.

Though bleeding is generally improper in this difease, yet blistering is highly necessary. Blistering plasters may be applied at all times of the fever with great advantage. If the patient is delirious, he ought to be blistered on the neck or head, and it will be the safest course, when the insensibility continues, as soon as the discharge occassoned by one blistering plaster abates, to apply another to fen e other part of the body, and by that means keep up a continual succession of them till he be cut of danger.

I have been more fentible of the advantages of bliftering in this than in any other diferse. Bliftering platters not only flinmlate the solids to action, but likewise occasion a continual discharge, which may in some measure supply the want of critical evacuation, which

<sup>\*</sup> See Appendix, Vomiting julep.

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feldom happen in this kind of fever. They are most proper, however, either towards the beginning, or after some degree of stupor has come on, in which last case it will always be proper to blifter

the head.

If the patient is costive through the course of the disease, it will be necessary to procure a stool, by giving him every other day a clyster of milk and water, with a little fugar, to which may be added a spoonful of common salt, if the above does not operate.

Should a violent loofeness come on, it may be checked by small quantities of Venice treacle, or giving the patient for his ordinary

drink the white decoction\*.

A miliary eruption sometimes breaks out about the ninth or tenth day. As eruptions are often critical, great care should be taken not to retard nature's operation in this particular. The eruption ought neither to be checked by bleeding nor other evacuations, nor pushed out by a hot regimen: but the patient should be supported by gentle cordials, as wine-whey, fmall negus, fago gruel with a little wine in it, and fuch like. He ought not to be kept too warm: vet a kindly breathing sweat should by no means be

Though bliftering and the use of cordial liquors are the chief things to be depended on in this kind of fever: yet for those who may choose to use them, we shall mention one or two of the forms

of medicine which are commonly prescribed in itt.

In desperate cases, where the hiccough and starting of the tendons have already come on, we have sometimes seen extraordinary effects from large doses of musk frequently repeated. Musk is doubtless an antispasmodic, and may be given to the quantity of a scruple three or four times a day, or oftener if necessary. Sometimes it may be proper to add to the musk a few grains of camphire, and falt of hartshorn, as these tend to promote perspiration and the discharge of urine. Thus fifteen grains of musk, with three grains of camphire, and fix grains of falt of hartshorn, may be made into a bolus with a little fyrup, and given as above.

\* See Appendix, White decoction.

t When the patient is low, ten grains of Virginian Inake-root, and the Same quantity of contrayerva-root, with five grains of Russian castor, all in fine powder, may be made into a bolus with a little of the cordial confection of Syrup of Saffron. One of these may be taken every four or five hours.

The following powder may be used with the same intention: Take wild Valerian-root in powder one scruple, Saffron and costor each four grains. Mix thefe by rubbing them together in a mortar, and give one

in a cup of wine-when, three or four times a-day.

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If the fever should happen to intermit, which it frequently does towards the decline, or if the patient's strength should be wasted with colliquative sweats, &c. it will be necessary to give him the Peruvian bark. Half a dram, or a whole dram, if the stomach will bear it, of the bark in fine powder may be given four or five times a-day, in a glass of red port or claret. Should the bark in substance not sit easy on the stomach, an ounce of it in powder may be insufed in a bottle of Lisbon or Rhenish wine, for two or three days, afterwards it may be strained, and a glass of it taken frequently\*.

Some give the bark in this and other fevers, where there are no fymptoms of inflammation, without any regard to the remission or intermission of the fever. How far future observations may tend to establish this practice, we will not pretend to say; but we have reason to believe that the bark is a very universal febrifuge, and that it may be administered with advantage in most fevers where bleeding is not necessary, or where there are no symptoms of topical inflam-

mation.

#### C H A P. XX.

# OF THE MALIGNANT, PUTRID, OR SPOTTED FEVER.

of its fymptoms it bears a great refemblance to that dreadful disease the plague. Persons of a lax habit, a melancholy disposition, and those whose vigour has been wasted by long fasting, watching, hard labour, excessive venery, frequent salivations, &c. are most liable to it.

CAUSES.—This fever is occasioned by foul air, from a number of people being confined in a narrow place, not properly ventilated; from putrid animal and vegetable effluvia, &c. Hence it prevails in camps, jails, hospitals, and infirmaries, especially where such places are too much crowded, and cleanlines is neglected.

A close constitution of the air with long rainy or foggy weather likewise occasions putrid severs. They often succeed great inunda-

\* The bark may likewife be very properly administered, along with other cordials, in the following manner: Take an ounce of Peruvian bark, orange-peel half an ounce, Virginian Inake-root two drams, saffron one dram. Let all of them be powdered, and infused in an English pint of the best brandy for three or four days. Afterwards the liquor may he strained, and two tea-spoonfuls of it given three or four times u-day in a glass of small wine or negus.

tions in low and marshy countries, especially when these are prece-

ded or followed by a hot and fultry feafon.

Living too much upon animal food, without a proper mixture of vegetables, or eating fish or fiesh that has been kept too long, are likewise apt to occasion this kind of sever. Hence failors on long voyages, and the inhabitants of besieged citics, are very often visited with putrid severs.

Corn that has been greatly damaged by rainy scasons, or long keeping, and water which has become putrid by stagnation, &c.

may likewise occasion this fever.

Dead carcases tainting the air, especially in hot seasons, are very apt to occasion putrid diseases. Hence this kind of sever often prevails in countries which are the scenes of war and bloodshed. This shews the propriety of removing burying-grounds, slaughter-houses, &c. at a proper distance from great towns.

Want of cleanliness is a very general cause of putrid fevers.— Hence they prevail amongst the poor inhabitants of large towns, who breathe a confined unwholesome air, and neglect cleanliness. Such mechanics as carry on dirty employments, and are constantly confined within doors, are likewise very liable to this disease.

SYMPTOMS.—The malignant fever is generally preceded by a remarkable weakness or loss of strength, without any apparent cause. This is sometimes so great, that the patient can scarce walk, or even sit upright, without being in danger of fainting away. His mind too is greatly dejected; he sighs, and is full of dreadful ap-

prehensions.

There is a nausea, and sometimes a vomiting of bile; a violent pain of the head, with a strong pulsation or throbbing of the temporal arteries; the eyes often appear red and inflamed, with a pain at the bottom of the orbit; there is a noise in the ears, the breathing is laborious, and often interrupted with a sigh; the patient complaints of a pain about the region of the stomach, and in his back and loins; his tongue is at first white, but afterwads it appears black and chaped; and his teeth are covered with a black crust. He sometimes passes worms both upwards and downwards, is affected with tremors or shaking, and often becomes delirious.

If blood is let, it appears diffolved, or with a very small degree of cohesion, and soon becomes putrid; the stools smell extremely seetid, and are sometimes of a greenish, black, or reddish cast. Spots of a pale purple, dun or black colour, often appear upon the skin, and sometimes there are violent hamorrhages, or dis-

charges of blood from the mouth, eyes, nofe, &c.

Patrid fevers may be distinguished from the inflammatory, by the smallness of the pulse, the great dejection of mind, the dissolved state of the blood, the petechiæ, or purple spots, and the putrid?

finell of the excrements. They may likewife be diffinguished from the low or nervous fever, by the heat and thirst being greater, the urine of a higher colour, and the loss of strength, dejection of mind,

and all the other fymptoms more violent.

It fometimes happens, however, that the inflammatory, nervous, and putrid fymptoms are so blended together, as to render it very difficult to determine to which class the fever belongs. In this case the greatest caution and skill are requisite. Attention must be paid to those symptoms which are most prevalent, and both the regimen and medicines adopted to them.

Inflammatory and nervous fevers may be converted into malignant

and putrid, by too hot a regimen or improper medicines.

The duration of putrid fevers is extremely uncertain; fometimes they terminate between the feventh and fourteenth day, and at other times they are prolonged for five or fix weeks. Their duration depends greatly upon the conftitution of the patient, and the

manner of treating the disease.

The most favourable symptoms are, a gentle looseness after the fourth or fifth day, with a warm mild sweat. These, when continued for a considerable time, often carry off the fever, and should never be imprudently stopped. Small military pustles appearing between the petechiæ, or purple spots, are likewise favourable, as also hot scabby cruptions about the mouth and nose. It is a good sign when the pulse rises upon the use of wine, or other cordi is, and the nervous symptoms abate; deafness coming on towards the decline of the fever, is likewise often a favourable symptom\*, as are

abscesses in the groin or parotid glands.

Among the unfavourable fymptoms may be reckoned an excessive looseness, with a hard swelled belly; large black or livid blotches breaking out upon the skin; apthæ in the mouth; cold clammy sweats, blindness; change of the voice; a wild staring of the cyes; difficulty of swallowing; inability to put out the tongue; and a constant inclination to uncover the breast. When the sweat and saliva are tinged with blood, and the urine is black, or deposits a black sooty sediment, the patient is in great danger. Starting of the tendons, and section, involuntary stools, attended with coleness of the extremities, are generally the forerunners of death.

REGIMEN.—In the treatment of this disease we ought to endeavour as far as possible to counteract the putrid tendency of the humours; to support the patient's strength and spirits; and to assist

<sup>\*</sup> Deafness is not always a favourable symptom in this disease.—
P rhaps it is only so when occasioned by abscesses formed within the ears.

Nature in expelling the cause of the disease, by gentle promoting

perspiration and the other evacuations.

It has been observed, that putrid severs are often occasioned by unwholesome air, and of course they must be aggravated by it. Care should therefore be taken to prevent the air from staguating in the patient's chamber, to keep it cool, and renew it frequently, by opening the doors or windows of some adjacent apartment. The breath and perspiration of persons in persect health soon render the air of a small apartment noxious; but this will sooner happen from the perspiration and breath of a person whose whole mass of hu-

mours are in a putrid state.

Besides the frequent admission of fresh air, we would recommend the use of vinegar, verjuice, juice of lemon, Seville orange, or any kind of vegetable acid that can be most readily obtained. These ought frequently to be sprinkled upon the floor, the bed, and every part of the room. They may also be evaporated with a hot iron, or by boiling, &c. The fresh skins of lemons or oranges ought likewise to be laid in different parts of the room, and they should be frequently held to the patient's nose. The use of acids in this manner would not only prove very refreshing to the patients, but would likewise tend to prevent the infection from spreading among those who attend him. Strong scented herbs, as rue, tansy, rosemary, wormwood, &c. may likewise be laid in different parts of the house, and smelled by those who go near the patient.

The patient must not only be kept cool, but likewise quiet and casy. The least noise will affect his head, and the smallest fatigue

will be apt to make him faint.

Few things are of greater importance in this disease than acids, which ought to be mixed with all the patient's food as well as drink. Orange, lemon, or vinegar whey, are all very proper and may be drank by turns, according to the patient's inclination. They may be rendered cordial by the addition of wine in such quantity as the patient's strength seems to require. When he is very low, he may drink negus, with only one half water, and sharpened with the juice of orange or lemon. In some cases a glass of wine may now and then he allowed. The most proper wine is Rhenish; but if the body be open, red port or claret is to be prefered.

When the body is bound, a tea-spoonful of the cream of tartar may be put into a cup of the patient's drink, as there is occasion; or he may drink a decoction of tamarinds, which will both quench

his thirst, and promote a discharge by stool.

If camomile tea will fit upon the stomach it is a very proper drink in this disease. It may be sharpened by adding to every cup of the tea ten or fifteen drops of the clixir of vitriol.

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The food must be light, as panado or groat gruel, to which a little wine may be added, if the patient be weak and low; and they ought all to be sharpened with the juice of orange, the jelly of currants, or the like. The patient ought likewise to eat freely of ripe fruits, as roasted apples, currant or goose-berry tarts, preserved cherries or plumbs, &c.

Taking a little food or drink frequently, not only supports the spirits, but counteracts the putrid tendency of the humours: for which reason the patient ought frequently to be sipping small quantities of some of the acid siquors mentioned above, or any that may

be more agreeable to his palate, or more readily obtained.

If he is delirious, his feet and hands ought to be fomented with a strong insusion of camomile flowers. This, or an insusion of the bark, to such as can afford it, cannot fail to have a good effect. Fomentations of this kind not only relieve the head, by relaxing the vessels in the extremities, but as their contents are absorbed, and taken into the system, they may affist in preventing the putrescency of the humours.

MEDICINE.—If a vomit be given at the beginning of this fever, it will hardly fail to have a good effect; but if the fever has gone on for some days, and the symptoms are violent, vomits are not quite so safe. The body however is always to be kept gently open by clysters, or mild laxative medicines.

Bleeding is feldom necessary in putrid fevers. If there be figns of an inflammation, it may sometimes be permitted at the first on-

fet; but the repetition of it generally proves hurtful.

Elistering plasters are never to be used unless in the greatest extremities. If the petechiæ or spots should suddenly disappear, the patient's pulse sink remarkably, and a delirium, with other bad symtoms, come on, blistering may be permitted. In this case the blistering plasters are to be applied to the head, and inside of the legs or thighs. But as they are sometimes apt to occasion a gangrene, we would rather recommend warm cataplasins or poultices of mustard and vinegar to be applied to the feet, having recourse to blisters only in the utmost extremities.

It is common in the beginning of this fever to give the emetic tartar in small doses, repeated every second or third hour, till it shall either vomit, purge, or throw the patient into a sweat. This practice is very proper, provided it be not pushed so tar as to weaken the patient.

A very ridiculous notion has long prevailed, of expelling the poisonous matter of malignant diseases by trisling doses of cordial or alexipharmic medicines. In consequence of this notion, the contrayerva-root the cordial confection, the mithridate, &c. have been extolled as infallible remedies. There is reason however to be-

lieve, that these seldom do much good. Where cordials are neceffary, we know none that is superior to good wine; and therefore again recommend it both as the fafest and best. Wine, with acids and antiseptics, are the only things to be relied on in the cure

of malignant fevers.

In the most dangerous species of this disease, when it is attended with purple, livid, or black spots, the Peruvian bark must be administered. I have seen it, when joined with acids, prove successful, even in cases where the petechiæ had the most threatening aspect. But, to answer this purpose, it must not only be given in

large doses, but duly persisted in.

The best method of administering the bark is certainly in substance. An ounce of it in powder may be mixed with half an English pint of water, and the same quantity of red wine, and fharpened with the elixir or spirit of vitriol, which will both make it sit easier on the stomach, and render it more beneficial. Two or three ounces of the fyrup of lemon may be added, and two table spoonfuls of the mixture taken every two hours, or oftener, if the stomach is able to bear it.

Those who cannot take the bark in substance may intuse it in

wine, as recommended in the preceding disease.

If there be a violent looseness, the bark must be boiled in red wine with a little cinnamon, and sharpened with the elixir of vitriol, as above. Nothing can be more beneficial in this kind of loofeness than plenty of acids, and such things as promote a gentle per-

If the patient be troubled with vomiting, a dram of the falt of wormwood, dissolved in an ounce and an half of fresh lemon jnice, and made into a draught with an ounce of simple cinnamon water, and a bit of sugar, may be given and repeated as often as it is ne-

ceffary.

If swelling of the glands appear, their suppuration is to be promoted by the application of poultices, ripening cataplasms, &c. And as foon as their is any appearance of matter in them, they

ought to be laid open, and the poultices continued.

I have known large ulcerous fores break out in various parts of the body, in the decline of this fever, of a livid gangrenous appearance, and a most putrid cadaverous smell. These gradually healed, and the patient recovered, by the plentiful use of the Peru-

vian bark and wine, sharpened with the spirits of vitriol.

For preventing putrid fevers we would recommend a strict regard to cleanliness; a dry situation; sufficient exercise in the open air; wholesome food, and a moderate use of generous liquors. fection ought above all things to be avoided. No constitution is proof against it. I have known persons seized with a putrid sever,

by only making a fingle visit to a patient in it; others have caught it by lodging for one night in a town where it prevailed; and some

by attending the funerals of fuch as died of it\*.

When a putrid fever feizes any person in a family, the greatest attention is necessary to prevent the discase from spreading. The sick ought to be placed in a large apartment, as remote from the rest of the family as possible; he ought likewise to be kept extremely clean, and should have fresh air frequently let into his chamber; whatever comes from him should be immediately removed, his linen should be frequently changed, and these in health ought to avoid all unnecessary communication with him.

Any one who is apprehensive of having caught the infection, ought immediately to take a vomit, and to work it off by drinking plentifully of camomile tea. This may be repeated in a day or two, if the apprehensions still continue, or any unfavourable

fymptoms appear.

The person ought likewise to take an infusion of the bark and camomile flowers for his ordinary drink; and before he goes to bed, he may drink an English pint of pretty strong negus, or a few glasses of generous wine. I have been frequently obliged to follow this course, when malignant severs prevailed, and have likewise recommended it to others with constant success.

People generaly fly to bleeding and purging as antidotes against infection; but these are so far from securing them, that they often,

by debilitating the body, increase the danger.

Those who wait upon the fick in putrid fevers, ought always to have a piece of spunge or a handkerchief dipt in vinegar, or juice of lemon, to smell of, while near the patient. They ought likewise to wash their hands, and, if possible, to change their clothes, before they go into company.

\* The late Sir John Pringle expressed a concern less these cautions should prevent people from attending their friends or relations when afflicted with putrid severs. I teld him I meant only to discourage unnecessary attendants, and mentioned a number of instances where putrid severs had proved fatal to persons who had taken them in visiting the sick, when their wists were more hurtful than beneficial to the sick. This sagacious physician very readily agreed with me, in thinking that a good doctor and a careful nurse were the only necessary attendants; and that all other attendants, and vistants, not only endangered themselves, but generally, by their efficious solicitude and ill-directed care, greatly injured the sick.

## C H A P. XXI.

#### OF THE MILIARY FEVER.

THIS fever takes its name from the small pustules or bladders which appear on the skin, resembling, in shape and size, the seeds of millet. The pustules are either red or white, and some-

times both are mixed together.

The whole body is fometimes covered with puffules; but they are generally more numerous where the fweat is most abundant, as on the breast, the back, &c. A gentle sweat, or moissure on the skin, greatly promotes the emption; but, when the skin is dry, the eruption is both more painful and dangerous.

Sometimes this is a primary disease; but it is much oftener only a fymptom of some other malady, as the small-pox, measles, arden, putriel, or nervous sever, &c. In all these cases it is generally the

effect of too hot a regimen or medicines.

The miliary fever chiefly attacks the idle and the phlegmatic, or perfons of a relaxed habit. The young and the aged are more liable to it than those in the vigour and prime of life. It is likewise more incident to women than men, especially the delicate and the indolent, who, neglecting exercise, keep continually within doors, and live upon weak watery diet. Such females are extremely liable to be seized with this disease in childbed, and often lose their lives by it.

CAUSES.—The miliary fever is fometimes occasioned by violent puffions or affections of the mind; as excessive grief, anxiety, thoughtfulness, &c. It may likewise be occasioned by excessive watchings, great evacuations, a weak watery diet, rainy seusons, eating too freely of cold, crude, unripe fruits, as plumbs, cherries, cucumbers, melons, &c. Impure waters, or provisions which have been spoiled by rainy seasons, long keeping, &c. may likewise cause miliary severs. They may also be occasioned by the steppage of any customary evacuation, as issues, setons, ulcers, the bleeding

piles in men, or the menstrual flux in women, &c.

This disease in childbed-women is sometimes the effect of great costiveness during pregnancy; it may likewise be occasioned by their excessive use of green trash, and other unwholesome things, in which pregnant women are too apt to indulge. But its most general cause is indolence. Such women as lead a fedentary life, especially during pregnancy, and at the same time live grossly, can hardly escape this disease in childbed. Hence it proves extremely stall to women of fathion, and likewise to those women in manufacturing towns, who, in order to assist their husbands, sit close

within doors for almost the whole of their time. But among we men who are active and laborious, who live in the country, and take sufficient exercise without doors, this disease is very little known.

SYMPTOMS.—When this is a primary disease, it makes its attack, like most other eruptive severs, with a slight shivering, which is succeeded by heat, loss of strength, faintishness, sighing, a low quick pulse, dissiculty of breathing, with great anxiety and oppression of the breast. The patient is restless, and sometimes delirious; the tongue appears white, and the hands shake, with often a burning heat in the palms; and in childbed-women the milk

generally goes away, and the other discharges stop.

The patient feels an itching or prickling pain under the skin, after which innumerable small pustules of a red or white colour begin to appear. Upon this the symptoms generally abate, the pulse becomes more full and soft, the skin grows moister, and the sweat, as the disease advances, begins to have a peculiar feetid smell; the great load on the breast, and oppression of the spirits, generally go off, and the customary evacuations gradually return. About the sixth or seventh day from the eruption, the pustules begin to dry and fall off, which occasions a very disagreeable itching in the skin.

It is impossible to ascertain the exact time when the pustules will either appear or go off. They generally come out on the third or fourth day, when the eruption is critical; but, when symptomatical, they may appear at any time of the discase.

Sometimes the pultitles appear and vanish by turns. When that is the case, there is always danger; but when they go in all of a

fudden, and do not appear again, the danger is very great.

In childbed-women the pultules are commonly at first filled with clear water, afterwards they grow yellowish. Sometimes they are interspersed with pultules of a red colour. When these only appear

the difease goes by the name of rash.

REGIMEN.—In all eruptive fevers, of whatever kind, the chief point is to prevent the fudden difappearing of the pullules, and to promote their maturation. For this purpose the patient must be kept in such a temperature, as neither to push out the eruption too fast, nor to canse it to retreat prematurely. The diet and drink ought therefore to be in a moderate degree nourishing and cordial; but neither strong nor heating. The patient's chamber ought neither to be kept 100 hot nor cold; and he should not be too much covered with clothes. Above all, the mind is to be kept easy and cheerful. Nothing so certainly makes an eruption go in as fear, or the apprehension of danger.

The food must be weak chicken-broth with bread, panado, sago, or groat-gruel, &c. to a jill of which may be added a spoonful or two of wine, as the patient's strength requires, with a few grains of salt and a little sugar. Good apples roasted or boiled, with other ripe fruits of an opening cooling nature, may be eaten.

The drink may be finited to the state of the patient's strength and spirits. If these be presty high, the drink ought to be weak; as

water-gruel, balm-tea, or the decoction mentioned below\*.

When the patient's spirits are low, and the eruption does not rife sufficiently, his drink must be a little more generous; as wine-whey, or small negus, sharpened with the juice of orange or lemon,

and made stronger or weaker as circumstances may require.

Sometimes the miliary fever approaches towards a putrid nature, in which case the patient's strength must be supported with generous cordials, joined with acids; and, if the degree of putrescence be great, the Peruvian bark must be administered. If the head be much affected, the body must be kept open by emollient clysterst.

MEDICINE.—If the food and drink be properly regulated, there will be little occasion for medicine in this discase. Should

\* Take two ounces of the shavings of hartshorn, and the same quantity of sasaparilla, boil them in two English quarts of water. To the strained decestion add a little white sugar, and let the patient take it for

his ordinary drink.

† In the commercium literarium for the year 1735, we have the history of an epidemical miliary fever, which raged at Strasburgh in the months of November, December, and January; from which we learn the necessity of a temperate regimen in this malady, and likewise that phylicians are not always the first who discover the proper treatment of discases. " This fever made terrible havock even among men of robust constitutions, and all medicine proved in vain. They were seized in an instant with shivering, varyning, stretching, and pains in the back, succeeded by a most intense heat; at the same time there was a great loss of strength and appetite. On the seventh or ninth day the miliary eruptions appeared, or spots like flea-bites, with great anxiety, a delirium, restlessiness, and tossing in bed. Bleeding was fatal. While matters were in this unhappy fituation, a midwife, of her own accord, gave to a patient, in the height of the difease, a clyster of rain water and butter without falt, and for his ordinary drink a quart of spring water, half a pint of generous wine, the juice of lemon, and fix ounces of the whitest sugar, gently boiled till a scum arose, and this with great success; for the belly was foon loofened, the grievous symptoms vanished, and the patient was reflored to his fenies, and fratched from the jows of death." This practice was instated by others with the like happy effects.

the eruption however not rife, or the spirits flag, it will not only be necessary to support the patient with cordials, but like wife to apply bliftering plasters. The most proper cordial, in this case, is good wine, which may either be taken in the patient's food or drink; and if there be figns of purrescence, the bark and acids may be

mixed with wine, as directed in the putrid fever.

Some recommend bliftering through the whole course of this difeafe; and where Nature flags, and the cruption comes and goes, it may be necessary to keep up a stimulus, by a continual succession of small bliftering plasters; but we would not recommend above one at a time. If however the pulse should fink remarkably, the pultules fall in and the head be affected, it will be necessary to apply feveral bliftering plaffers to the most fensible parts, as the inside of the legs and thigh, &c.

Bleeding is foldom necessary in this discase, and sometimes it does much hurt, as it weakens the patient, and depreffes his fpirits. It is therefore never to be attempted unless by the advice of a physi-We mention this, because it has been customary to treat this disease in childbed-women by plentifully bleeding, and other evacvations, as if it were highly inflammatory. But this practice is generally very unfafe. Patients in this fituation bear evacuations very ill. And indeed the disease seems often to be more of a putrid than of an imflammatory nature.

Though this fever is often occasioned in childbed-women by too hot a regimen, yet it would be dangerous to leave that off all of a folden, and have recourse to a very cool regimen, and large evacuations. We have reason to believe, that supporting the patient's spirits, and promoting the natural evacuations, is here much safer than to have recourfe to artificial ones, as thefe, by finking the spir-

its, feldom fail to increase the danger.

If the disease proves tedious, or the recovery flow, we would recommend the Peruvian bark, which may either be taken in substance, or infused in wine or water, as the patient inclines.

The miliary fever, like other emptive diseases, requires gentle purging, which should not be neglected, as soon as the fever is gone

off, and the patient's strength will permit.

To prevent this difease, a pure dry air, sufficient exercise, and wholefonie food, are necessary. Pregnant women should guard against costiveness, and take daily as much exercise as they can bear, avoiding all green trashy from and other unwholesome things; and when in childbed, they ought strictly to observe a coel regimen.

#### C H A P. XXII.

#### OF THE REMITTING FEVER.

THIS fever takes its name from a remission of the symptoms, which happens sometimes sooner, and sometimes later, but generally before the eighth day. The remission is commonly preceded by a gentle sweat, after which the patient seems greatly relieved, but in a few hours the sever returns. These remissions return at very irregular periods, and are sometimes of longer, sometimes of shorter duration; the nearer however that the sever ap-

proaches to a regular intermittent, the danger is the lefs.

CAUSES.—Remitting fevers prevail in low marshy countries abounding with wood and stagnating water; but they prove most statal in places where heat and moisture are combined, as in some parts of Africa, the province of Bengal in the East Indies, &c. where remitting fevers are generally of a putrid kind, and prove very statal. They are most frequent in close calm weather, especially after rainy seasons, great inundations, or the like. We age, sex, or constitution, is exempted from the attack of this sever; but it chiefly seizes persons of a relaxed habit, who live in low dirty habitations, breathe an impure stagnating air, take little exercise, and use of unwholesome diet.

SYMPTOMS.—The first fymptoms of this fever are generally yawning, stretching, pain, and giddiness in the head, with alternate fits of heat and cold. Sometimes the patient is affected with addirium at the very first attack. There is a pain, and sometimes a swelling, about the region of the stomach, the tongue is white, the eyes and skin frequently appear vellow, and the patient is often afflicted with bilious vomitings. The pulse is sometimes a little hard, but seldom full, and the blood, when let, rarely shews any signs of inflammation. Some patients are exceedingly costive, and

others are afflicted with a very troublesome looseness,

It is impossible to describe all the symptoms of this disease, as they vary according to the fituation, the season of the year, and the confituation of the patient. They may likewise be greatly changed by the method of treatment, and by many other circumstances too tedious to mention. Sometimes the bilious symptoms predominate, sometimes the nervous, and at other times the putrid. Nor is it at all uncommon to find a succession of each of these, or even a complication of them at the same time, in the same person.

REGIMEN.—The regimen must be adapted to the prevailing fymptoms. When there are any signs of inflammation, the diet must be slender, and the drink weak and diluting. But when ner-vous or putrid symptoms prevail, it will be necessary to support the

patient with food and liquors of a more generous nature, such as are recommended in the immediately preceding severs. We must however be very cautious in the use of things of a heating quality, as this fever is frequently changed into a continual by a hot regimen,

and improper medicines.

Whatever the fyrmptoms are, the patient ought to be kept cool, quict and clean. His apartment, if possible, should be large, and frequently ventilated, letting in fresh air at the doors or windows. It ought likewise to be sprinkled with vineger, juice of lemon, or the like. His linen, bed-clothes, &c. should be frequently changed, and all his exprements immediately removed. Though these things have been recommended before, we think it necessary to repeat them here, as they are of more importance to the sick than practitioners

are apt to imagine\*.

MEDICINE.—In order to cure this fever, we must endeavour to bring it to a regular intermission. This intention may be promoted by bleeding, if there be any signs of inflammation; but when that is not the case, bleeding ought by no means to be attempted, as it will weaken the patient and prolong the disease. A vomit however will seldom be improper, and is generally of great fervice. Twenty or thirty grains of ipecacuanha will answer this purpose very well; but, where it can be obtained, we would rather recommend a grain or two of tartar emetic, with five or six grains of ipecacuanha, to be made into a draught, and given for a vomit. This may be repeated once or twice at proper intervals, if the sickness or nausea continues.

The body ought to be kept open either by clysters or gentle laxatives, as weak infusions of senna and manna, small doses of the lenitive electuary, cream of tartar, tamarinds, stewed prunes,

\* The ingenious Dr. Lind, of Windfor, in his inaugural differtation concerning the putrid remitting fever of Bengal, has the following observation: "Industa lodices, as stragula, sapius sunt mutanda as aeri exponenda; fæces sordesque quam primum removendæ; oportet etiam ut loca quibus ægri decumbunt sint salubria, et aceto conspersa; denique ut ægris cura quanta maxima prospiciatur. Compertum ego habeo, medicum hæc sedulo observantem, quique, ea exequi potest, multo magis ægris profuturum, quam medicum peritiorem hisce commodis destitutum."

"The patient's shirt, bed clothes, and bedding, ought frequently to be changed, and exposed to the air, and all his exercments immediately removed; the bed-chamber should be well ventilated, and frequently sprinkled with vinegar; in short, every attention should be paid to the patient. I can affirm, that a physician who puts these in practice will much oftener succeed than one who is even more skilful, but has not opportunity of using

these means."

or the like; but all strong or drassic purgatives are to be carefully avoided.

By this course the fever in a few days may generally be brought to a pretty regular or diffinct intermission, in which case the Pernvian bark may be administered, and it will seldom fail to perfect the cure. It is needless here to repeat the methods of giving the bark, as we have already had occasion frequently to mention them.

The most likely way to avoid this fever is to use a wholesome and nourishing diet, to pay the most scrupulous attention to cleanliness, to keep the body warm, to take sufficient exercise, and in hot countries to avoid damp fituations, night air, evening dews, and the like. In countries where it is endemical, the best preventive medicine which we can recommend, is the Peruvian bark, which may be chewed, or infused in brandy or wine, &c. Some recommend fmoaking tobacco as very beneficial in marshy countries, both for the prevention of this and intermitting fevers.

#### C H A P. XXIII.

# OF THE SMALL-POX.

THIS disease, which originally came from Arabia, is now become so general, that very few escape it at one time of life or another. It is a most contagious malady; and has for many years proved the scourge of Europe.

The small-pox generally appears towards the spring. They are very frequently in summer, less so in autumn, and least of all in winter. Children are most liable to this disease; and those whose food is unwholesome, who want proper exercise, and abound with

gross humours, run the greatest hazard from it.

The disease is distinguished into the distinct and confluent kind; the latter of which is always attended with danger. There are likewise other distinctions of the small-pox; as the crystalline, the

bloody, &c.

CAUSES .- The finall-pox is commonly caught by infection. Since the disease was first brought into Europe, the infection has never been wholly extinguished, nor have any proper methods, asfar as I know, been taken for that purpose; so that now it has become in a manner constitutional, Children who have overheated themselves by running, wrestling, &c. or adults after a debauch, are most apt to be seized with the small-pox.

SYMPTOMS.—This difease is so generally known, that a minute description of it is unnecessary. Children commonly lock a Ritle dull, feem liftless and drows for a few days before the more violent fymptoms of the small pox appear. They are likewise more inclined to drink than usual, have little appetite for solid food, complain of weariness, and, upon taking exercise, are apt to sweat. These are succeeded by slight fits of cold and heat in turns, which, as the time of the eruption approaches, become more violent, and are accompanied with pains of the head and loins, vomiting, &c. The pulse is quick, with a great heat of the skin, and resilessness. When the patient drops asseep, he wakes in a kind of horror, with a sudden start, which is a very common symptom of the approaching cruptions as are likewise convulsion fits, in very young children.

About the third or fourth day from the time of fickening, the fmall-pox generally begins to appear; fometimes indeed they appear fooner, but that is no favourable fymptom. At first they very nearly resemble slea-bites, and are soonest discovered on the face,

arms, and breaft.

The most favourable symptoms are a slow eruption, and an abatement of the fever as soon as the pussules appear. In a mild distinct kind of small-pox the pussules seldom appear before the sourth day from the time of sickening, and they generally keep coming out gradually for several days after. Pussules which are distinct, with a florid red basis, and which fill with thick purulent matter, first of a whitish, and afterwards of a yellowish colour, are the best.

A livid brown colour of the pullules is an unfavourable fymptom; as also when they are small and flat, with black specks in the middle. Pustules which contain a thin watery icher are very bad. A great number of pox on the face is always attended with much danger. It is likewise a very bad sign when they run into

one another.

It is a most unfavourable symptom when petechiæ, or purple, brown, or black spots are interspersed among the postules.—These are signs of a putrid dissolution of the blood, and shew the danger to be very great. Bloody stools or urine, with a swelled belly, are bad symptoms; as is also a continual strangury. Pale urine and a violent throbbing of the arteries of the neck, are signs of an approaching delirium, or of convulsion sits. When the face does not swell, or falls before the poxcome to maturity, it is very unsavorable. If the face begins to fall about the eleventh or twelfth day, and at the same time the hands and seet begin to swell, the patient generally does well; but when these do not succeed to each other, there is reason to apprehend danger. When the tongue is covered with a brown crust, it is an unsavorable symptom. Cold shivering sits coming on at the height of the disease are likewise unravorable. Grinding of the teeth, when it proceeds from an affection of the nervous

fystem, is a bad sign; but sometimes it is occasioned by worms, or

a disordered stomach.

REGIMEN.—When the first symptoms of the small-pox appear, people are ready to be alarmed, and often sly to the use of medicine, to the great danger of the patient's life. I have known children, to appease the anxiety of their parents, bled, blistered, and purged, during the sever which preceded the eruption of the small-pox, to such a degree, that Nature was not only disturbed in her operation, but rendered unable to support the pustules when they were out; so that the patient, exhausted by mere evacuations, sunk under the disease.

When convultions appear, they give a dreadful alarm. Immediately fome noftrum is applied, as if this were a primary difcase; whereas it is only a symptom, and far from being an unfavourable one, of the approaching eruption. As the fits generally go off before the actual appearance of the small-pox, it is attributed to the medicine, which by this means acquires a reputation without any

merit\*.

All that is, generally fpeaking, necessary during the eruptive fever, is to keep the patient cool and easy, allowing him to drink freely of some weak diluting liquors; as balm tea, barley-water, clear whey, gruels, &c. He should not be confined to bed, but should sit up as much as he is able, and should have his feet and legs frequently bathed in lukewarm water. His food ought to be very light; and he should be as little disturbed with company as possible.

Much mischief is done at this period, by confining the patient too soon to his bed, and plying him with warm cordials or sudorific medicines. Every thing that heats and inflames the blood increases the sever, and pushes out the pushules prematurely. This has numberless ill effects. It not only increases the number of pushules, but likewise tends to make them run into one another; and when they have been pushed out with too great violence, they generally fall in before they come to maturity.

The good women, as foon as they fee the finall-pox begin to appear, commonly ply their tender charge with cordials, saffron, and miragold teas, wine, punch, and even brandy itself. All these are given with a view, as they term is, to throw our the eruption

<sup>\*</sup> Convulsion-fits are no doubt very alarming, but their effects are often falutary. They seem to be one of the means made use of by Nature for breaking the force of a fever. I have always observed the fever abated, and sometimes quite removed, after one or more convulsive-fits.—This readily accounts for convulsions being a savourable symptom in the fever which precedes the eruption of the small-pox, as every thing that mitigates this fever lessens the eruption.

from the heart. This, like most other popular mistakes, is the abuse of a very just observation, that when there is a moissure on the skin, the pex rise better, and the patient is easier, than when it continues dry and parched. But that is no reason for forcing the patient into a sweat. Sweating never relieve, unless where it comes spontaneously, or is the essect of drinking week diluting liquors.

Children are often so prevish, that they will not lie a-bed without a nurse constantly by them. Indulging them in this, we have reason to believe, has many bad effects both upon the nurse and child. Even the natural heat of the nurse cannot fail to augment the sever of the child; but if she too proves severish, which is es-

ten the case, the danger must be increased\*.

Laying feveral children which have the small-pox in the same bed has many ill consequences. They ought if possible never to be in the same chamber, as the perspiration, the heat, the smell, &c. all tend to augment the sever, and to heighten the disease. It is common among the poor to see two or three children lying in the same bed, with such a load of pushules that even their skins slick together. One can hardly view a scene of this kind without being sickened by the sight. But how must the effluvia effect the poor patients, many of whom perish by this usaget.

A very dirty custom prevails among the lower class of people, of allowing children in the small-pox to keep on the same linen during the whole period of that loathsome disease. This is done less they should catch cold; but it has many ill consequences. The linen becomes hard by the moisture which it absorbs, and frets the tender skin. It likewise occasions a bad sineil, which is very permicious

\* I have known a nurse, who had the small pox before, so insected by lying constantly a-bed with a child in a had kind of small-pex, that she had not only a great number of pusules which broke out all over her hedy, but afterwards a malignant sever, which terminated in a number of impossible or boils, and from which she narrowly escaped with her life. We montion this to put others upon their guard against the danger of this

virulent infection.

† This observation is likewise applicable to hospitals, work houses, &c. where numbers of children happen to have the small-pox at the same time. I have seen above forty children cooped up in one apartment all the while they had this disease, without any of them hing educated to breathe the fresh air. No one can be at a loss to see the in propriety of such conduct. It ought to be a rule, not only in hospitals for the small-pox, but likewise for other diseases, that no patient should be will in sight or hearing of another. This is a matter to which to little regard is paid. In most hospitals and infirmaries, the sick, the dying, and the dead, are often to be seen in the same apartment.

both to the patient and those about him; besides, the filth and fordes which adhere to the linen being resorbed, or taken up again into

the body, greatly augment the difeafe.

A patient should not be suffered to be dirty in an internal disease, fat less in the small-pox. Cutaneous disorders are often occasioned by nastiness alone, and are always increased by it. Were the patient's linen to be changed every day, it would greatly refresh him. Care indeed is to be taken that the linen be thoroughly dry. It

ought likewife to be put on when the patient is most cool.

So strong is the vulgar prejudice in this country, notwithstanding all that has been said against the hot regimen in the small-pox, that numbers still said a sacrifice to that error. I have seen poor womentravelling in the depth of winter, and carrying their children along with them in the small-pox, and have frequently observed others begging by the way side, with infants in their arms covered with putfiles; yet I could never learn that one of these children died by this fort of treatment. This is certainly a sufficient proof of the sait, of exposing patients in the small-pox to the open air. There can be no reason, however, for exposing them to public view. It is now very common in the environs of great towns to meet patients in the small-pox on the public walks. This practice, however well it may suit the purposes of boasting inoculators, is dangerous to the citizens, and contrary to the laws of humanity and found policy.

The food in this disease ought to be very light, and of a cooling nature, as panado, or bread boiled with equal quantities of milk and water, good apples roasted or boiled with milk, and sweetened

with a little fugar, or fuch like.

The drink may be equal parts of milk and water, clear sweet whey, barley-water, or thin gruel, &c. After the pox are full, butter-milk, being of an opening and cleansing nature, is a very proper drink.

MEDICINE.—This disease is generally divided into four different periods, viz. the sever which precedes the eruption, the eruption itself, the suppuration, or maturation of the pushules, and the

secondary fever.

It has already been observed, that little more is necessary during the primary sever, than to keep the patient cool and quiet, allowing him to drink diluting liquors, and bathing his sect frequently in warm water. Though this be generally the safest course that can be taken with infants, yet adults of a strong constitution and plethoric habit sometimes require bleeding. When a full pulse, a dry skin, and other symptoms of inflammation render this operation necessary, it ought to be performed; but, unless these symptoms are

urgent, it is safer to let it alone; if the bedy is bound, emollient

clysters may be thrown in.

If there is a great nausea, or inclination to venit, weak camomile tea, or lukewarm-water may be drank, in order to clean the stomach. At the beginning of a fever, Nature generally attempts a discharge, either upwards or downwards, which, if promoted by gentle means, would tend greatly to abate the violence of the disease.

Though every method is to be taken during the primary fever, hy a cool regimen, &c. to prevent too great an eruption; yet after the puffules have made their appearance, our business is to promote the suppuration, by diluting drink, light food, and if nature seems to slug, by generous cordials. When a low, creeping pulse, faint-ishness, and great loss of strength, render cordials necessary, we would recommend good wine, which may be made into negus, with an equal quantity of water, and sharpened with the juice of orange, the jelly of currants, or the like. Wine-whey, sharpened as above, is likewise a proper drink in this case; great care however must be taken not to overheat the patient by any of these things. This, instead of promoting, would retard the cruption.

The rising of the small-pox is often prevented by the violence of the fever; in this case the cool regimen is strictly to be observed. The patient's chamber must not only be kept cool, but he ought likewise frequently to be taken out of bed, and to be lightly covered

with clothes while in it.

Excessive restless often prevents the rising and filling of the small-pox. When this happens, gentic opintes are necessary.—These however ought always to be administered with a sparing band. To an infant, a tea-spoonful of the syrup of poppies, may be given every five or six hours till it has the desired effect. An adult will require a table-spoonful in order to answer the same pur-

pose.

If the patient be troubled with a strangury, or suppression of the urine, which often happens in the small-pox, he should be frequently taken out of bed, and, if he be able, should walk across the room with his feet bare. When he cannot do this, he may be frequently set on his knees in bed, and should endeavour to pass his urine as often as he can. When these do not succeed, a tea-specuful of the sweet spirits of nitre may be occasionally mixed with his drink. Nothing more certainly relieves the patient, or is more beneficial in the small-pox, than a plentiful discharge of urine.

It the mouth be foul, and the tongue dry and chapped, it ought frequently to be wathed, and the throat gargled with water and hon-

ey, tharpened with a little vinegar or current jelly.

During the rifing of the small-pox, it frequently happens that the patient is eight or ten days without a stool. This not only tends to heat and influme the blood, but the faces, by lodging so long in the body, become acrid, and even putrid; from whence bad consequences must ensue. It will therefore be proper when the body is bound, to throw in an emollient clyster every second or third day, through the whole course of the disease. This will greatly cool and relieve the patient.

When petechiæ, or purple, black, or livid spots appear among the small-pox, the Peruvian bark must be immediately administered in as large doses as the patient's stomach can beat. For a child, two drachms of the bark in powder may be mixed in three ounces of common water, one ounce of simple cinnamon water, and two ounces of the syrup of orange or lemon. This may be size pened with the spirits of vitiriol, and a table-spoonful of it given every hour. If it be given to an adult, in the same form, he may take at least three or four spoonfuls every hour. This medicine outht not to be trisled with, but must be administered as frequently as the stomach can bear it; in which case it will often produce very happy effects. I have frequently seen the petechiæ disapear, and the small-pox, which had a very threatening aspect, arise and fill with laudable matter, by the use of the bark and acids.

The patient's drink ought likewife in this case to be generous, as wine or strong negus acidulated with spirits of vitriol, vinegus, the juice of lemon, jelly of currants, or such like. His food must consist of apples rousted or boiled, preserved cherries, plums, and

other fruits of an acid nature.

The bark and acids are not only necessary when the petechize or putrid symptoms appear, but likewise in the lymphatic or crystalline small-pox, where the matter is thin, and not duly prepared. The Peruvian bark seems to possess a singular power of assisting Nature in preparing landable pus, or what is called good matter; consequently it must be beneficial both in this and other diseases, where the crisis depends on a suppuration. I have often observed where the small-pox were slat, and the matter contained in them quite clear and transparent, and where at first they had the appearance of running into one another, that the Peruvian bark, acidulated as above, changed the colour and consistence of the matter, and produced the most happy effects.

When the eruption fubfides fuddenly, or, as the good women term it, when the small-pox strike in, before they have arrived at maturity, the danger is very great. In this case blistering-plasters must be immediately, applied to the wrists and ancles, and the patient's

spirits supported with cordials.

Sometimes bleeding has a furprifing effect in raifing the pulibles after they have subsided; but it requires skill ta know when this is proper, or to what length the patient can bear it. Sharp cataplasins however may be applied to the feet and hands, as they tend to promote the swelling of these parts, and by that means to draw the humours towards the extremities.

The most dangerons period of this disease is what we call the secondary tever. This generally comes on when the small-pox begin to blacken, or turn on the face: and most of those who die of

the small-pox are carried off by this sever.

Nature generally attempts, at the turn of the small-pox, to relieve the patient by loose stools. Her endeavours this way are by no means to be counteracted, but promoted, and the patient at the same time supported by tood and drink of a nourishing and cordial nature.

If, at the approach of the fecondary fever, the pulse be very quick, hard, and strong, the heat intense, and the breathing laborations, with other symptoms of an inflammation of the breat, the patient must immediately be bled. The quantity of blood to be let, must be regulated by the patient's strength, age, and the urgency of the symptoms.

But in the secondary sever, if the patient be faintiff, the puftules become suddenly pale, and if there be a great coldness of the extremities, blistering platters must be applied, and the patient must be supported with generous cordials. Wine and even spirits have

sometimes been given in such cases with amazing success.

As the fecondary fever is in a great measure, if not wholly, owing to the absorption of the matter, it would feem highly confonant to reason, that the pustules, as soon as they come to maturity, thould be opened. This is every day practised in other phlegmons which tend to suppuration; and there seems to be no cause why it should be less proper here. On the contrary, we have reason to believe, that by this means the secondary sever might always be

lesened, and often wholly prevented.

The puffules thould be open when they begin to turn of a yellow colour. Very little art is necessary for this operation. They may either be opened with a lancet or a needle, and the matter absorbed by a little dry lint. As the pussules are generally first ripe on the sace, it will be proper to begin with opening these, and the others in course as they become ripe. The pussules generally fill again, a second or even a third time; for which cause the operation must be repeated, or rather continued as long as their is any considerable opperature of matter in the pussules.

We have reason to believe that this operation, rational as it is, has been neglected from a piece of mistaken tenderness in parents.

They believe it must give great pain to the poor child; and therefore would rather see it die than to have it thus tortured.— This notion however is entirely without foundation. I have frequently opened the pushules when the patient did not see me, without his being in the least sensible of it; but suppose it were attended with a little pain, that is nothing in comparison to the advantages which arise from it.

Opening the pullules not only prevents the reforption of the matter into the blood, but likewise takes of the tension of the skin, and by that means greatly relieves the patient. It likewise tends to prevent the pitting, which is a matter of no small importance. Acrid matter, by lodging long in the pullules, cannot fail to corrode the tender skin; by which many handsome faces become so deformed as

hardly to bear a refemblance to the human figure\*.

It is generally necessary, after the small-pox are gone off, to purge the patient. If however the body has been open through the whole course of the disease, or if butter-milk and other things of an opening nature have been drank freely after the height of the small-pox, purging becomes less necessary; but ought never whol-

ly to be negelacted.

For very young children, an infusion of senna and prunes, with a little rhubarb, may be sweetened with coarse sugar, and given in small quantities till it operates. Those who are farther advanced must take medicines of a sharper nature. For example, a child of sive or six years of age may take eight or ten grains of sine rhubarb in powder over night, and the same quantity of jalap in powder next morning. This may be wrought off with fresh broth or water-gruel, and may be repeated three or sour times, sive or six days intervening between each dose. For children surther advanced, and adults, the dose must be increased in proportion to the age and constitution.

When imposshumes happen after the small-pox, which is not seldom the case, they must be brought to suppuration as soon as possible, by means of ripening poultices; and when they have been

\* Though this operation can never do harm, yet it is only necessary when the patient has a great load of small-pex, or when the matter which they contain, is of so thin and acrid a nature, that there is reason to apprehend had ennsequences from its being too quickly resorbed, or taken up again into the mass of circulating humours.

† I have of late been accustomed, after the small-pox, to give one, two, three, four, or sive grains of calemel, according to the age of the patient, over night, and to work it off next morning with a suitable dose of jalap. Or the jalap and calemed may be mixed together, and

given in the warning,

opened, or have broke of their own accord, the patient must be purged. The Peruvian bark and a milk diet will likewise be useful

in this case.

When a cough, a difficulty of breathing, or other fymptoms of a confunction, fucceed to the small-pox, the patient must be sent to a place where the air is good, and put upon a course of assertions, with such exercise as he can bear. For further directions in this case, see the article Confumptions.

### OF INOCULATION.

Though no difease, after it is sound, basses the powers of medicine more effectually than the small-pox, yet more may be done before-hand to render this disease favourable than any one we know, as almost all the danger from it may be prevented by inoculation. This salu ary invention has been known in Europe above half a century; but, like most other useful discoveries, it has till of late made but flow progress. It must however be acknowledged, to the honour of this country, that inoculation has met with a more favour ble reception here, than a nong any of our neighbours. It is still however far from being general, which we have reason to fear will be the case, as long as the practice continues in the hands

of the faculty.

No discovery can be of general utility, while the practice of it is kept in the bands of a few. Had the inoculation of the small-pox been introduced as a sashion, and not as a medical discovery, or had it been practifed by the same kind of operators here, as it is in those countries from whence we learned it, it had long ago been universal. The sears, the jealousies, the prejudices, and the opposite interests of the faculty, are, and ever will be, the most effectual obstacles to the progress of any salutary discovery. Hence it is that the practice of inoculation never became in any measure general, even in England, till taken up by men not bred to physic. These have not only rendered the practice more extensive, but likewise more safe, and by acting under less restraint than the regular practitioners, have taught them that the patient's greatest danger arose, not from the want of care, but from the excess of it.

They know very little of the matter who impute the fuccess of modern inoculators to any superior skill, either in preparing the patient communicating the disease. Some of them indeed, from a fordid desire of energing the whole practice to themselves, pretend to have extraordinary secrets or a drums for preparing persons for inoculation, which a ver fell of success. But this is only a pretence calculated to blind the ignorant and inattentive. Common sense and prudence clone are sufficient both in the choice of the subject and management of the operation. Whoever is possessed of

these may perform this office for his children whenever he finds it

convenient, provided they be in a good state of health.

This fentiment is not the refult of theory, but of observation. Though few physicians have had more opportunities of trying incoculation in all its different forms, so little appears to me to depend on those, generally reckorted important circumstances, of preparing the body, communicating the infection by this or the other method, &cc. that for several years past I have persuaded the parents or nurses to perform the whole themselves, and have seund that method followed with equal success, while it is free from many inconveniences that attend the other.

The small-pox may be communicated in a great variety of ways with nearly the same degree of safety and success. In Turkey, from whence we learned the practice, the women communicate the disease to children, by opening a bit of the skin with a needle, and putting into the wound a little matter taken from a ripe pussule.—On the coast of Barbary they pass a thread wet with the matter through the skin between the thumb and fore-singer; and in some of the states of Barbary, inoculation is performed by rubbing in the variolous matter between the thumb and fore-singer, or on other parts of the body. The practice of communicating the small-pox, by rubbing the variolous matter upon the skin, has been long known in many parts of Asia and Europe as well as in Barbary, and has generally gone by the name of buying the small-pox.

The present method of inoculating in Britain is to make two or three flunting incisions in the arm, so superficial as not to pierce

<sup>\*</sup> A critical situation, too often to be met with, fift put me upon trying this method. A gentleman who had lost all his clildren except one son, by the small-pox, was determined to have him ineculated. He told me his intention, and desired I would persuade the mether and grandmother, Sec. of its prepriety. But that was impessible. They were not to be persuaded, and either could not get the better of their sears, or were determined against conviction. It was always a point with me not to persorm the operation without the consent of the parties concerned. I therefore advised the father, after giving his son a dose or two of rhubarb, to go to a patient who had the small-pox of a good kind, to open two or three of the pusiules, taking up the matter with a little cotton, and as soon as he came home to take his son apart, and give his arm a slight scratch with a sin, esterwards to rub the place well with the cotton, and take no surther notice of it. All this he punctually performed: and at the usual period the small-pox made their appearance, which were of an exceeding good kind, and so mild as not to consine the log an hour to his hed. None of the other relations knew but the discose had come in the

through the fain, with a lancet wet with fresh matter taken from a ripe pushale; afterwards the wounds are closed up, and lest without any drossing. Some make use of a lancet covered with the dry matter; but this is less certain, and ought never to be used unless where fresh matter cannot be obtained; when this is the case, the matter ought to be moistened by holding the lancet for some time in

the steam of warm water\*.

Indeed if fresh matter be applied long enough to the skin, there is no occasion for any wound at all. Let a bit of thread, about helf an inch long, wet with the matter, be immediately applied to the arm, midway between the shoulder and the clow, and covered with a piece of the common slicking plaster, and kept on for eight or ten days. This will feldom fail to communicate the discase.—We mention this method, because many people are afraid of a wound; and doubtless the more easy the operation can be performed, it has the greater chance to become general. Some people imagine, that the discharge from a wound lessens the cruption; but there is no great stress to be laid upon this notion; besides, deep wounds often ulcerate, and become troublesome.

We do not find that inoculation is at all confidered as a medical operation in those countries from whence we learned it. In Turkey it is performed by the women, and in the East Indies by the Brachmins or priests. In this country the custom is still in its infancy; we make no doubt, however, but it will soon become so familiar, that parents will think no more of inoculating their children,

than at present they do of giving them a purge.

No set of men have it so much in their power to render the practice of inoculation general, as the clergy, the greatest opposition to it still arising from some scruples of conscience, which they alone can remove. I would recommend it to them not only to endeavour to remove the religious objections which week mines may have to this salutary practice, but to enjoin it as a day, and to point out the danger of neglecting to make use of a mean which Providence has put in our power for saving the lives of eur off pring. Surely such parents as wilfully neglect the means of saving their children's lives are as guilty'as those who put them to death. I with this matter were duly weighed. No one is more ready to make allowance for human weakness and religious prejudices, yet I cannot help recommending it, in the warmest monner, to parents, to consider how

<sup>\*</sup> Mr. Tronchin communicates this disease by a little bit of threal dipt in the matter, which he covers with a small historing plaster. It is method may no doubt be used with advantage in those cases where the fatient is very much alarmed at the sight of any cutting instrument.

great an injury they do their children, by neglecting to give them

this difease in the early period of life.

The numerous advantages arising from the inoculation of the small-pox, have been pretty fully pointed out by the learned Dr. M'Kenzie, in his History of Health\*. To these mentioned by the doctor, we shall only add, that such as have not had the small-pox in the early period of life, are not only rendered unhappy, but like-

Many and great," fays this humane author, " are the dangers attending the natural infection, from all which the inoculation is quite fecure. The natural i Racion may invade weak and distempered bedies, by no means diff feet for it kindly reception. It may attack them at a feafon of the year either violently hat, or intenfely cold. It may be communicated from a fort of small pox impregnated with the utmost virulence. It may lay lold upon people unexpectedly, when a dangerous fort is imprudently imported into a maritime place. It may surprize us soon after excesses committed in luxury, intemperance, or lewdness. It may likewife scize on the innocent after indispensable watchings, kard labour, or necessary journies. And is it a trivial advantage, that all these unhappy circumflances can be presented by insculation? By inscalation, numbers are faved from deformity as well as death. In the natural smallpax, how often are the finest features, and the most beautiful complexions, miferably disfigured? Whereas inoculation rarely leaves any ugly marks of fears, even where the number of puffules on the face has been very considerable, and the symptoms by no means favourable. And many other gricuous complaints, that are frequently subsequent to the natural fort, feldom follow the urtificial. Does not inoculation also prevent those inexpressible terrors that perpetually barass persons who never had this difease, insemuel that when the small-pow is epidemical, entire villages are depopulated, markets ruined, and the face of diffress spread over the while country? From this terror it arifes, that justice is frequently postponed, or d'scouraged, at sessions or offizes where the smallpox rages. Witnesses and jurors dare not appear; and by reason of the necessary absence of some gentlemen, our honourable and useful judges are not attended with that reverence and splendour due to their office and merit. Does not insculation, in like manner, prevent our brave failors from being soized with this diftemper on shipboard, where they must quickly spread the infection among such of the crew who never had it before, and where they have scarce any chance to escape, being half Rifled with the claseness of their cabins, and but very indifferently nursed? Laffly, with regard to the foldiery, the miferies attending these poor creatures, when attacked by the small pox on a march, are inconceivable, swithout attendants, without lodgings, without any accommodation; fa that one of three commonly perifics.

wife in a great measure unfit for fustaining many of the most useful an I important offices. Few people would choose even to hire a fervant who had not had the small-pox, far less to purchase a slave who had the chance of dying of this difeofe. How could a physician or a furgeon, who had never had the finall-pox himfelf, attend others under that in lady? How deplorable is the fituation of females, who arrive at mature age without having had the fmall-pox! A woman with child feldom furvives this difease: and if an infant happen to be feized with the finall-pox upon the mother's breaft, who has not had the disease herself, the scene and be distressing! If the continue to fuckle the child, it is at the poll of her own life; and if the wean it, in all probability it will perith. How often is the affectionate mother forced to leave her house, and abandon her children, at the very time when her care is most necessary? Yet should parental affection get the better of her fears, the confequences would often prove fatal. I have known the tender mother and her fucking infant laid in the same grave, both untimely victims to this dreadful malady. But these are seenes too shocking even to mention. Let parents who run away with their children to avoid the fmall-pox, or who refuse to inoculate them in infancy, confider to what deplorable fituations they may be reduced by this miftaken tenderness.

As the small-pox is now become an epidemic disease in most parts of the known world, no other choice remains but to render the malady as mill as possible. This is the only manner of excirpation now left in our power; and though it may seem paradoxical, the artificial method of communicating this disease, could it be rendered universal, would amount to nearly the same thing as the rooting it out. It is a matter of small consequence, whether a disease be entirely extirpated, or rendered so mild as neither to destroy life, nor hart the constitution; but that this may be done by inoculation, does not now admit of a doubt. The numbers who die under inoculation hardly deserve to be named. In the natural way, one in four or five generally dies; but by inoculation not one of a thousand. Nay, some can boast of having inoculated ten thousand without the loss of a single patient.

I have often wished to see some plan established for rendering this salutary practice universal; but am afraid I shall never be so happy. The dissipation indeed are many; yet the thing is by no means impracticable. The aim is great; no less than saving the lives of one sourch part of mankind. What ought not to be at-

tempted, in order to accomplish so desirable an end?

The first step towards rendering the practice universal, must be to remove the religious prejudices against it. This, as already observed, can only be done by the clergy. They must not only re-

comment it as a duty to others, but likewise practise it on their own children. Example will ever have more influence than precept.

The next thing requisite is to put it in the power of all. For this purpose we would recommend it to the Faculty to inoculate the children of the poor gratis. It is hard that so useful a part of mankind should by their poverty be excluded from such a benefit.

Should this fail, it is furely in the power of any State to render the practice general, at least as far as their dominion extends. We do not mean that it ought to be enforced by a law. The best way to promote it would be to employ a sufficient number of operators at the public expense, to inoculate the children of the poor. This would only be necessary till the practice became general; afterwards custom, the strongest of all laws, would oblige every individual to inoculate his children to prevent reslections.

It may be objected to this scheme, that the poor would refuse to employ the inoculators: this difficulty is easily removed. A small premium to enable mothers to attend their children while under the disease, would be a sufficient inducement; besides, the success attending the operation would soon banish all objections to it. Even considerations of profit would induce the poor to embrace this plan. They often bring up their children to the age of ten or twelve, and when they come to be useful, they are snatched away by this malady, to the great loss of their parents, and detriment of the public.

The British legislature has of late years shewn great attention to the preservation of infant-lives, by supporting the foundling hospital, &c. But we will venture to say, if one-tenth part of the sums laid out in supporting that institution, had been bestowed towards promoting the practice of inoculation of the small-pox among the poor, that not only more useful lives had been saved, but the practice ere now rendered quite universal in this island. It is not to be imagined what effect example and a little mony will have on the poor; yet, if left to themselves, they would go on for ever in the old way, without thinking of any improvement. We only mean this as a hint to the humane and public spirited. Should such a scheme be approved, a proper plan might easily be laid down for the execution of it.

But as the public plans are very difficult to bring about, and often, by the felfish views and misconduct of those intrusted with the execution of them, fail of answering the noble purpose for which they were designed; we shall therefore point out some other method by which the benefits of inoculation may be extended to the poor.

There is no doubt but inoculators will daily become more numerous. We would therefore have every parish in Britain to allow

one of them a fmall annual falary for inoculating all the children of the parish at a proper age. This might be done at a very triffing expence, and it would enable every one to enjoy the benefit of this

falutary invention.

Two things chiefly operate to prevent the progress of inoculation. The one is a with to put the evil day as far off as possible. This is a principle in our nature; and as inoculation seems rather to be anticipating a future evil, it is no wonber mankind are so averse to it. But this objection is sufficiently answered by the success. Who in his senses would not prefer a lesser evil to-day to a greater

tomorrow, provided they were equally certain?

The other obstacle is the sear of reflections. This has very great weight with the bulk of mankind. Should the child die, they think the world would blame them. This they cannot bear. Here lies the difficulty; and till that be removed, inoculation will make but small progress. Nothing however can remove it but custom. Make the practice fashionable, and all objections will soon vanish. It is sashion alone that has led the multitude since the beginning of the world and will lead them to the end. We must therefore call upon the more enlightened part of mankind to set a pattern to the rest. Their example, though it may for some time meet with opposition, will at length prevail.

I am aware of an objection to this practice from the expence with which it may be attended: this is easily obviated. We do not mean that every parish ought to employ a Sutton, or a Dimidale, as inoculators. These have by their success already recommended themselves to crowned heads, and are beyond the vulgar reach; but have not others an equal chance to succeed; They certainly have. Let them make the same trial, and the difficulties willsoon vanish. There is not a parish, and hardly a village in Britain, destitute of some person who can bleed.—But this is a far more difficult operation, and requires both more skill and dexterity than inoculation.

The perfons to whom we cheifly recommend the performance of this operation are the clergy. Most of them know something of medicine. Almost all of them bleed, and can order a purge, which are all the qualifications necessary for the practice of ineculation. The priess among the less enlightened Indians perform this office, and why should a Christian teacher think himself above it? Surely the bodies of men, as well as their seals, merit a part of the pastor's care; at least the greatest Teacher who ever appeard among men, seems to have thought so,

Should all other methods fail, we would recommend it to parents to perform the operation themselves. Let them take any method of communicating the disease they please; provided the subjects be healthy, and of a proper age, they will seldom sail to

fuecced to their wish. I have known many instances even of mothers performing the operation, and never so much as heard of one had consequence. A planter in one of the West-India islands is faid to have inoculated, with his own hand, in one year, three hundred of his slaves, who, notwithstanding the warmth of the climate, and other unfavourable circumstances, all did west. Common mechanics have often, to my knowledge, performed the orperation with as good success as physicians. We do not however mean to discourage those who have it in their power, from employing people of skill to inoculate their children, and attend them while under the disease, but only to shew, that where such cannot be had, the operation ought not upon that account to be neglected.

Instead of multiplying arguments to recommend this practice, I shall just beg leave to mention the method which I took with my own son, then an only child. After giving him two gentle purges, I ordered the nurse to take a bit of thread which had been previously wet with fresh matter from a pock, and to lay it upon his arm, covering it with a piece of slicking-plaster. This remained on fix or seven days, till it was subbed off by accident. At the usual time the small-pox made their appearance, and were exceedingly favourable. Surely this, which is all that is generally necessarian

ry, may be done without any skill in medicine.

We have been the more full upon this subject because the benefits of inoculation cannot be extended to society by any other means than making the practice general. While it is confined to a few it must prove hurtful to the whole. By means of it the contagion is spread, and is communicated to many who might otherwise never have had the disease. Accordingly it is found that nearly the same number die of the small-pox now as before inoculation was introduced; and this important discovery, by which alone more lives might be saved than by all the endeavours of the faculty, is in a great measure lost by its benefits not being extended to the whole community\*.

The spring and autumn have been usually reckoned the most proper seasons for inoculation, on account of the weather being then most temperate; but it ought to be considered that these are generally the most unhealthy seasons of the whole year. Undoubtedly the best preparation for the disease is a previous good state of health. I have always observed that children in particular are more sickly towards the end of spring and autumn than at any other time of

<sup>\*</sup> By a well laid plan for extended inoculation, more lives might be faved at a small expense, than are at present professed by all the hospitals in England, which cost the public such an amazing sum.

the year. On this account, as well as for the advantage of cool air, I would propose winter as the most proper scason for inoculation; though, on every other consideration, the spring would seem

to be preferable.

The most proper age for inoculation is between three and five. Many approve of inoculating on the breast, and where no circumstances forbid this practice, I have no objection to it. Children, however, are more liable to convulsions at this time than afterwards; besides, the anxiety of the mother or nurse, should the child be in danger, would not fail to heighten it by spoiling the milk.

Children who have conflitutional diseases must nevertheless be inocculated. It will often mend the habit of body; but ought to be performed at a time when they are most healthy. Accidental dis-

eafes should always be removed before inoculation.

It is generally thought necessary to regulate the diet for some time before the disease be communicated. In children, however, great alteration in diet is seldom necessary, their food being commonly of the most simple and wholesome kind, as milk, waterpap, weak broths, bread, light pudding, milk roots, and white meats.

But children who have been accustomed to richer diet, who are of a grofs habit, or abound with bad humours, ought to be put upon a spare diet before they are inoculated. Their food should be of a light cooling nature, and their drink whey, butter-milk,

and fuch like.

We would recommend no other medicinal preparation but two or three mild purges, which ought to be fuited to the age and firength of the patient. The fuccess of inoculators does not depend on the preparation of their patients, but on their management of them while under the disease. Their constant care is to keep them cool, and their bodies gently open, by which means the fever is kept low, and the cruption greatly lessened. The danger is seldom great when the pushules are few; and their number is generally in proportion to the sever which precedes and attends the cruption.—Hence the chief secret of inoculation consists in regulating the cruptive sever, which generally may be kept sufficiently low by the methods mentioned above.

The regimen during this disease is in all respects the same as under the natural small-pox. The patient must be kept cool, his diet should be light, and his drink weak and diluting, &c. Should any bad samy proms appear, which is selden the case, they must be treated in the same way as directed in the natural small-pox. Purging is not less necessary after the small-pox by inoculation than in the

natural way, and ought by no means to be neglected.

### C H A P. XXIV.

#### OF THE MEASLES.

THE meassles appeared in Europe about the same time with the small-pox, and have a great affinity to that disease. They both came from the same quarter of the world, and are both infectious, and seldom attack the same person more than once. The meassles are most common in the spring season, and generally disappear in summer. The disease itself, when properly managed, seldom proves satal; but its consequences are often very troublesome.

CAUSE.—This disease, like the small-pox, proceeds from infection, and is more or less dangerous according to the constitution

of the patient, the feafon of the year, the climate, &c.

SYMPTOMS.—The measles, like other severs, are preceded by alternate fits of heat and cold, with fickness and less of appetite. The tongue is white, but generally moist. There is a short cough, a heaviness of the head and eyes, drowsiness, and a running at the nose. Sometimes indeed the cough does not come before the eruption has appeared. There is an inflammation and heat in the eyes, accompanied with a defluction of sharp rheum, and great acuteness of sensation, so that they cannot bear the light without pain. The eye-lids frequently swell so as to occasion blindness. The patient generally complains of his throat; and a vomiting or looseness often precedes the eruption. The stools in children are commonly greenish; they complain of an itching of the skin, and are remarkably peevish. Bleeding at the nose is common, both before and in the progress of the disease.

About the fourth day, finall fpots, refembling flea-bites, appear, first upon the face, then upon the breast, and afterwards on the extremities: these may be distinguished from the small-pox by their scarcely rising above the skin. The sever, cough, and difficulty of breathing, instead of being removed by the eruption as in the small-pox, are rather increased, but the vomiting generally ceases.

About the fixth or feventh day from the time of fickening, the measiles begin to turn pale on the face, and afterwards upon the body; so that by the ninth day they entirely disappear. The fever, however, and difficulty of breathing, often continue, especially if the patient has been kept upon too hot a regimen. Petechia, or purple spots, may likewise be eccasioned by this error.

A violent loofeness sometimes succeeds the meatles; in which case

the patient's life is in immernent danger.

Such as die of the meatles, generally expire about the ninth day from the invation, and are commonly carried off by a peripneumony, or inflammation of the lungs.

A 2

The most favourable symptoms are a moderate looseness, a moist

skin, and a plentiful discharge of urine.

When the eruption fuddenly falls in, and the patient is feized with a delirium, he is in the greatest danger. If the measles turn too soon of a pale colour, it is an unfavourable symptom, as are also great weakness, vomiting, restlessness, and disficulty of swallowing. Purple or black spots appearing among the measles are very unfavourable. When a continual cough, with hoarseness, succeeds the disease, there is reason to suspect an approaching consumption of the lungs.

Our business in this disease is to affist Nature by proper cordials, in throwing out the cruption, if her efforts be too languid; but when they are too violent they must be restrained by evacuations, and cool diluting liquors, &c. We ought likewise to endeavour to appeare the most urgent symptoms, as the cough; restlessing, and

difficulty of breathing.

REGIMEN.—The cool regimen is necessary here as well as in the small-pox. The food too must be light, and the drink diluting. Acids however do not answer so well in the measles as in the small-pox, as they tend to exasperate the cough. Small beer, likewise, though a good drink in the small-pox, is here improper. The most suitable liquors are decoctions of liquorice with marsh-mallow roots, and safaparilla, insusions of linseed, or of the slowers of elder, balm-tea; clarified whey, barley water, and such like. These, if the patient be costive, may be sweetened with honey; or, if that should disagree with the stomach, a little manna may occasionally be added to them.

MEDICINE.—The measles being an inflammatory disease, without any critical discharge of matter, as in the small-pox, bleeding is commonly necessary, especially when the sever runs high, with difficulty of breathing, and great oppression of the breast. But if

the disease be of a mild kind, bleeding may be omitted\*.

Bathing the feet and legs frequently in lukewarm water both tends to abate the violence of the fever, and to promote the eruption.

The patient is often greatly relieved by vomiting. When there is a tendency this way, it ought to be promoted by drinking luke-warm water, or weak camomile tea.

When the cough is very troublefome, with dryness of the throat, and difficulty of breathing, the patient may hold his head over the steam of warm water, and draw the steam into his lungs.

<sup>\*</sup> I do not know any discase wherein bleeding is more necessary than in the meastes, especially when the sever runs high: in this case I have always sound it relieve the patient.

He may likewise lick a little spermaceti and sugar-candy pounded together; or take now and then a spoonful of the oil of sweet almonds, with fugar-candy diffolved in it. These will soften the

throat, and relieve the tickling cough.

If at the turn of the disease, the fever assumes new vigour, and there appears great danger of suffocation, the patient must be bled according to his strength, and blistering plasters applied, with a view to prevent the load from being thrown on the lungs, where if an inflammation should fix itself, the patient's life will be in im-

minent danger.

In case the measles should suddenly disappear, it will be necessary to purfue the fame method which we have recommended when the small-pox recede. The patient must be supported with wine and cordials. Bliftering platters must be applied to the legs and arms, and the body rubbed all over with warm flannels. Warm poultices may likewise be applied to the feet and the palms of the hands.

When purple or black spots appear, the patient's drink should be sharpened with spirits of vitriol; and if the putrid symptoms increase, the Peruvian bark must be administered in the same manner

as directed in the small-pox.

Opiates are fometimes necessary, but should never be given except in cases of extreme restlessness, a violent looseness, or when the cough is very troublesome. For children, the syrup of poppies is sufficient. A tea-spoonful or two may be occasionally given, according to the patient's age, or the violence of the symptoins.

After the measses are gone off, the patient ought to be purged. This may be conducted in the same manner as directed in the small-

If a violent loofeness succeeds the measles, it may be checked by taking for some days a gentle dose of rhubarb in the morning, and an opiate over night; but if these do not remove it, bleeding will

feldom fail to have that effect.

Patients recovering after the meafles should be careful what they eat or drink. Their food for some time ought to be light, and in fmall quantities, and their drink diluting, and rather of an opening nature, as butter-mild, whey, and fuch like. They ought also to beware of exposing themselves too soon to the cold air, lest a fuffocating catarrh, an afthma, or a confumption of the lungs should enfue,

Should a cough, with difficulty of breathing, and other fymptoms of a confumption, remain after the measles, small quantities of blood may be frequently let at proper intervals as the patient's strength and constitution will permit. He ought likewise to drink affes' milk, to remove to a free air, if in a large town, and to ride daily on horseback. He must keep close to a diet confissing of milk and vegetables; and lastly, if these do not succeed, let him remove to a warmer climate\*.

OF THE SCARLET FEVER.

The scarlet fever is so called from the colour of the patient's skin, which appears as if it were tinged with red winc. It happens at any feason of the year, but is most common towards the end of summer; at which time it often seizes whole families; children and young persons are most subject to it.

It begins like other fevers, with coldness and shivering, without any violent sickness. Afterwards the skin is covered with red spots, which are broader, more florid, and less uniform than the measles. They continue two or three days, and then disappear; after which

the criticle, or scarf-skin, falls off.

Children and young persons are sometimes seized at the beginning of this disease with a kind of stupor and epileptic sits. In this case the seet and legs should be bathed in warm water, in a large

<sup>\*</sup> Attempts have been made to communicate the measies. as well as the fmall-pox, by inoculation, nd awe make no doubt but in time the practice may succeed. Dr. Home, of Edingburgh, says, he communicated the disease by the blood. Others have tried this method, and have not found it succeed. Some think the disease would be more certainly communicated by rubbing the skin of a patient who has the meastes with rotton, and afterwards applying the cotton to a wound, as in the small-pox; while others recommend a bit of flannel which had been applied to the patient's skin, all the time of the disease, to be afterwards laid upon the arm or leg of the person to whom the infection is to be communicated. There is no doubt but this difease, as well as the small-pox, may be communicated various ways; the most probable, however, is either from cotton rubbed upon the skin, as mentioned above, or by introducing a little of the four humour which diffils from the eyes of the patient into the blood. It is agreed on all hands, that fit h patients as have been inoculated, had the difease very mildly; we therefore wish the practice were more general, as the measles have of late become very fatal.

blistering-platter applied to the neck, and a dose of the syrup of

poppies given every night till the patient recovers\*.

The fearlet fever however is not always of so mild a nature. It is sometimes attended with putrid or malignant symptoms, in which case it is always dangerous. In the malignant scarlet sever the patient is not only affected with coldness and shivering, but with langour, fiefkness, and great oppression; to these succeed excessive heat, nanfea and vomiting, with a foreness of the throat; the pulse extremely quick, but fmall and depressed; the breathing frequent and laborious; the skin hot, but not quite dry; tde tongue moist, and covered with a whitish mucus; the tonsils inflamed & ulcerated. When the eruption appears, it brings no relief: on the contrary, the fymptoms generally grow worle, and fresh ones come on, as the purging, delirium, &c.

When this disease is mistaken for a simple instammation, and treated with repeated bleedings, purging and cooling medicines, it generally proves futal. The only medicines that can be depended on in this case are cordials and antiseptics, as the Peruvian bark, wine, fnake-root, and the like. The treatment must be in general similar to that of the putrid fever, or of the malignant ulcerous fore

throatt.

OF THE BILIOUS FEVER.

When a continual, remitting, or intermitting fever is accompanied with a frequent or copious evacuation of bile, either by vemit or stool, the fever is denominated bilious. In Britain the bilious fever generally makes its appearance about the end of fummer, and ceases towards the approach of winter. It is most frequent and fatal in warm countries, especially where the foil is marshy, and when great rains are succeeded by fultry heats. Persons who work without doors, lie in camps, or who are exposed to the night air, are most liable to this kind of fever.

If there are fymptoms of inflammation at the beginning of this fever, it will be necessary to bleed, and to put the patient upon the cool diluting regimen recommended in the inflammatory fever. The faline draught may likewife be frequently administered, and

<sup>\*</sup> Sidenham.

<sup>†</sup> In the year 1774, during winter, a very bad species of this fever prevailed in Edinburgh. It raged chiefly among young people. The eruption was generally accompanied with a quinfey, and the inflammatory symptoms were so blended with others of a putrid nature, as to render the treatment of the difease very difficult. Many of the patients, towards the decline of the fever, were afflicted with large swellings of the submaxillary glands and not a few had a suppuration in one or bath ears.

the patient's body kept open by clyflers or mild purgatives. But if the fever should remit or internit, bleeding will feldom be necessary. In this case a vomit may be administered, and, if the body be bound, a gentle purge; after which the Peruvian bark will generally complete the cure.

In case of a violent looseness, the patient must be supported with chicken broth, jellies of hartscorn, and the like; and he may use the white decosion for his ordinary drink\*. If a bloody flux should accompany this fever, it must be treated in the manner reccommend-

ed under the article Dysentery.

When there is a burning heat, and the patient does not fweat, that evacuation may be promoted by giving him, three or four times a-day, a table-spoonful of Mindererus's spirits t mixed in a cup of his ordinary drink.

If the bilious fever be attended with the nervous, malignant, or putrid fymptoms, which is fometimes the case, the patient must

be treated in the same manner as directed under these diseases.

After this fever, proper care is necessary to prevent a relapse. For this purpose the patient, especially towards the end of autumn, ought to continue the use of the Peruvian bark for some time after he is well. He should likewise abstain from all trashy fruits, new liquors, and every kind of statulent aliment.

### C H A P. XXV.

### OF THE ERYSIPELAS, OR ST. ANTHONY'S FIRE.

attacks persons at any period of life, but is most common between the age of thirty and sorty. Persons of a sanguine or plethoric habit are most liable to it. It often attacks young people, and pregnant women; and such as have once been afflicted with it are very liable to have it again. Sometimes it is a primary discase, and at other times only a symptom of some other malady. Every part of the body is liable to be attacked by an erysipelas, but it most frequently seizes the legs or face, especially the latter. It is most common in autumn, or when hot weather is succeeded by cold and wet.

CAUSES.—The eryfipelas may be occasioned by violent passions or affections of the mind; as fear, anger, &c. When the body has been heated to a great degree, and is immediately exposed to

<sup>\*</sup> See Appendix, White Decoction. † See Appendix, Spirit of Mindererus.

the cold air, so that the perspiration is immediately checked, an erysipelas will often ensue\*. It may also be occasioned by drinking to excess, by continuing too long in a warm bath, or by any thing that overheats the blood. If any of the natural evacuations be obstructed, or in too small quantity, it may cause an erysipelas. The same effect will follow from the stoppage of artificial evacuations; as issues, setons, or the like.

SYMPTOMS.—The eryfipelas attacks with shivering, thirst, loss of strength, pain in the head and back; heat, restlessines, and a quick pulse; to which may be added vomiting, and sometimes a delirium. On the second, third, or sourth day, the part swells, becomes red, and small pustules appear; at which time the sever

generally abates.

When the eryfipelas scizes the foot, the parts contiguous swell, the skin shines; and, if the pain be violent, it will ascend to the

leg, and will not bear to be touched.

When it attacks the face, it swells, appears red, and the skin is covered with small pustules, filled with clear water. One or both eyes are generally closed with the swelling; and there is a difficulty of breathing. If the mouth and notirils be very dry, and the patient drowsy, there is reason to suspect an inflammation of the brain.

If the erylipelas affects the breast, it swells and becomes exceedingly hard, with great pain, and is apt to suppurate. There is a violent pain in the arm-pit on the side affected, where an abscels is

often formed.

If in a day or two the swelling subsides, the heat and pain abate, the colour of the part turns yellow, and the cuticle breaks and falls

off in scales, the danger is over.

When the eryfipelas is large, deep, and affects a very fensible part of the body, the danger is great. If the red colour changes into a livid or black, it will end in a mortification. Sometimes the inflammation cannot be discussed, but comes to a suppuration; in which case sistuation, a gaugene, or mortification, often ensue.

Such as die of this difease are commonly carried off by the fever, which is attended with difficulty of breathing, and sometimes with

<sup>\*</sup> The country people in many parts of Britain call this discase a blast, and imagine it proceeds from soul air, or ill wind, as they term it. The truth is, they often lie dozon to rest them, when warm and satigued, upon the damp ground, where they fall offeep, and lie so long as to catch cold, which occasions the erysipelas. This discase may indeed proceed from other causes, but we may wenture to say, that nine times out of ten it is occasioned by cold caught after the body has been greatly beated or satigued.

a delirium and great drowfinefs. They generally die about the fev-

enth or eighth day.

REGIMEN.—In the eryfipelas the patient must neither be kept too hot nor too cold, as either of these extremes will tend to make it retreat, which is always to be guarded against. When the disease is mild, it will be sufficient to keep the patient within doors, without confining him to his bed, and to promote the perspiration by diluting liquors, &c.

The diet ought to be slender, and of a moderately cooling and moistening quality, as groat-gruel, panado, chicken or barley broth, with cooling herbs and fruits, &c. avoiding sless, fish, strong drink, spices, pickles, and all other things that may heat and inslame the blood; the drink may be barley-water, an infusion of elder-flowers,

common whey, and fuch like.

But if the pulse be low, and the spirits sunk, the patient must be supported with negus, and other things of a cordial nature. His food may be sago gruel with a little wine, and neurishing broths taken in small quantities, and often repeated. Great care however

must be taked not to overheat him.

MEDICINE.—In this disease much mischief is often done by medicine, especially by external applications. People, when they fee an inflammation, immediately think that semething ought to be This indeed is necessary in large phleen ens; but in an eryfipelas the fafer course is to apply nothing. Almost all ointments, falves, and plasters being of a greaty nature, tend rather to obilruct and repel, than promote any discharge from the part. At the beginning of this difease, it is neither, by any means, safe to promote a suppuration, nor to repel the matter too quickly. The cryfipelas in many respects resembles the gont, and is to be treated with the greatest caution. Fine wool, or very fost slanpel, are the fafest applications to the part. These not only defend it from the external air, but likewise premote the perspiration, which has a great tendency to carry off the disease. In Scotland the common people generally apply a mealy cloth to the parts affected, which is far from heing improper.

It is common to bleed in the cryfipelas; but this likewife requires cantien. If however the fever be high, the pulse hard and firong, and the patient vigorous, it will be proper to bleed; but the quantity must be regulated by these circumstances, and the operation repeated as the symptoms may require. If the patient has been accustlemed to strong liquors, and the disease attacks his head,

bleeding is absolutely necessary.

Bathing the feet and legs frequently in lukewarm water, when the difease attacks the face or brain, has an excellent effect. It tends to make a derivation from the head, and seldom fails to relieve the patient. When bathing proves ineffectual, poultices, or sharp sinaplasms, may be applied to the soles of the feet, for the same

purpose.

In cases where bleeding is requisite, it is likewise necessary to keep the body open. This may be effected by emollient clysters, or small doses of nitre and rhubarb. Some indeed recommend very large doses of nitre in the erysipelas; but nitre seldom sits case on the stomach when taken in large doses. It is however one of the best medicines when the sever and inflammation run high. Half a dram of it, with sour or sive grains of rhubarb, may be taken in the patient's ordinary drink, four times a-day.

When the eryfipelas leaves the extremities, and feizes the head, fo as to occasion a delirium or stupor, it is absolutely necessary to open the body. If clysters or mild purgatives fail to have this effect, stronger ones must be given. Blistering plasters must likewise be applied to the neck, or behind the ears, and sharp cataplasms

laid to the foles of the feet.

When the inflammation cannot be discussed, and the part has a tendency to ulcerate, it will then be proper to promote suppuration, which may be done by the application of ripening poultices with

faffron, warm fomentations, and fuch like.

When the black, livid, or blue colour of the part shews a tendency to mortification, the Peruvian bark must be administered.—It may be taken along with acids, as recommended in the smallpox, or in any other form more agreeable to the patient. It must not however be tristed with, as the patient's life is at stake. A dram may be given every two hours if the symptoms be threatening, and cloths dipped in warm camphorated spirits of wine, or the tincture of myrrh and aloes, may be applied to the part, and frequently renewed. It may likewise be proper in this case to apply poultices of the bark, or to soment the part affected with a strong decoction of it.

In what is commonly called the fcorbutic erysipelas, which continues for a considerable time, it will only be necessary to give gentle laxatives, and such things as purify the blood, and promote the perspiration. Thus, after the inflammation has been checked by opening medicines, the decoction of woods\* may be drank, after which a profession of woods.

which a course of bitters will be proper.

Such as are liable to frequent attacks of the eryfipelas ought carefully to guard against all violent passions; to abstain from strong liquors, and all fat, viscid, and highly nourithing food. They should likewise take sufficient exercise, carefully avoiding the extremes of heat or cold. Their food should consist chiefly of milk, and such

fruits, herbs, and roots, as are of a cooling quality; and their drink ought to be fmall beer, whey, butter-milk, and fuch like.— They should never suffer themselves to be long costive. If that cannot be prevented by suitable diet, it will be proper to take frequently a gentle dose of rhubarb, cream of tartar, the lenitive electuary, or some other mild purgative.

### C H A P. XXVI.

## OF THE PHRENITIS, OR INFLAMMATION OF THE BRAIN.

THIS is sometimes a primary disease, but oftener only a symptom of some other malady; as the inflammatory, eruptive, or spotted sever, &c. It is very common, however, as a primary disease in warm climates, and is most incident to persons about the prime or vigour of life. The passionate, the studious, and those whose nervous system is irritable in a high degree, are most liable to it.

CAUSES.—This disease is often occasioned by night-watching, especially when joined with hard study: It may likewise proceed from hard drinking, anger, grief, or anxiety. It is often occasioned by the stoppage of the usual evacuations; as the bleeding piles in men, the customary discharges of women, &c. Such as imprudently expose themselves to the heat of the sun, especially by sleeping without doors in a hot season with their heads uncovered, are often suddenly seized with an inflammation of the brain, so as to awake quite delirious. When repellents are imprudently used in an erysipelas, an inflammation of the brain is sometimes the consequence. It may likewise be occasioned by external injuries, as blows or bruises upon the head, &c.

SYMPTOMS.—The fymptoms which usually precede a true inflammation of the brain are pain of the head, redness of the eyes, a violent sushing of the face, disturbed sleep, or a total want of it, great dryness of the skin, costiveness, a retention of urine, a small dropping of blood from the nose, singing of the ears, and extreme

fensibility of the nervous system.

When the inflammation is formed, the fymptoms in general are fimilar to those of the inflammatory sever. The pulse indeed is often weak, irregular, and trembling; but sometimes it is hard and contracted. When the brain itself is inflamed, the pulse is always soft and low; but when the inflammation only affects the integuments of the brain, viz. the dura and pia mater, it is hard. A remarkable quickness of hearing is a common symptom of this dis-

ease; but that seldom continues long. Another usual symptom is a great throbbing or pulsation in the arteries of the neck and temples. Though the tongue is often black and dry, yet the patient seldom complains of thirst, and even refuses drink. The mind chiefly runs upon such objects as have before made a deep impression on it; and sometimes, from a sullen silence, the patient becomes all of a

sudden quite outrageous.

A constant trembling and starting of the tendons is an unfavourable symptom; as are also, a suppression of the urine; a total want of sleep; a constant spitting; a grinding of the teeth, which last may be considered as a kind of convulsion. When a phrenitis succeeds an inflammation of the lungs, of the intestines, or of the throat, &c. it is owing to a translation of the disease from these parts to the brain, and generally proves satal. This shews the necessity of proper evacuations, and the danger of repellents in all inflammatory diseases.

The favourable fymptoms are, a free perspiration, a copious discharge of blood from the nose, the bleeding piles, a plentiful discharge of urine, which lets fall a copious sediment. Sometimes the disease is carried off by a looseness, and in women by an excess-

five flow of the menses.

As this difease often proves satal in a few days, it requires the most speedy applications. When it is prolonged, or improperly treated, it sometimes ends in madness, or a kind of stupidity which continues for life.

In the cure, two things are chiefly to be attended to, viz. to leffen the quantity of blood in the brain, and to retard the circulation

towards the head.

REG1MEN.—The patient ought to be kept very quiet. Company, noise, and every thing that affects the senses, or disturbs the imagination, increases the disease. Even too much light is Lurtful; for which reason the patient's chamber ought to be a little darkened, and he should neither be kept too hot nor cold. It is not however necessary to exclude the company of an agreeable friend, as this has a tendency to soothe and quiet the mind. Neither ought the patient to be kept too much in the dark, less it should occasion a gloomy melancholy, which is too often the consequence of this disease.

The patient must, as far as possible, be soothed and humoured in every thing. Contradiction will russe his mind, and increase his malady. Even when he calls for things which are not to be obtained, or which might prove hurtful, he is not to be possiblely denied them, but rather put off with the promise of having them as soon as they can be obtained, or by some other excuse. A little of any thing that the mind is set upon, though not quite proper, will hare

the patient less than a positive refusal. In a word, whatever he was fond of, or used to be delighted with when in health, may here be tried; as pleasing stories, soft music, or whatever has a tendency to soothe the passions and compose the mind. Boerhaave proposes several mechanical experiments for this purpose; as the soft noise of water distilling by drops into a bason, and the patient trying to reckon them, &c. Any uniform sound, if low-and continued, has a tendency to procure steep, and consequently may be of service.

The aliment ought to be light, confifting chiefly of farinaceous fubflances; as panado, and water-gruel sharpened with jelly of currants, or juice of lemons, ripe fruits roasted or boiled, jellies, preferves, &c. The drink small, diluting, and cooling; as whey, barley-water, or decoctions of barley and tamarinds, which latter not only render the liquor more palitable, but likewise more benefi-

cial, as they are of an opening nature.

MEDICINE.—In an inflammation of the brain, nothing more certainly relieves the patient than a free difcharge of blood from the nofe. When this comes of its own accord, it is by no means to be flooped, but rather promoted, by applying cloths dipped in warm water to the part. When bleeding at the nofe does not happen fpontaneously, it may be provoked, by putting a straw, or any other sharp body, up the nostril.

Bleeding in the temporal arteries greatly relieves the head: but as this operation cannot always be performed, we would recommend in its flead bleeding in the jugular veins. When the patient's pulfe and spirits are so low, that he cannot bear bleeding with the lancet, leeches may be applied to the temples. These not only draw off the blood more gradually, but by being applied nearer to the part

affected, generally give more immediate relicf.

A discharge of blood from the hæmorrhoidal veins is likewise of great service, and ought by all means to be promoted. If the patient has been subject to the bleeding piles, and that discharge has been stopped, every method must be tried to restore it; as the application of leeches to the parts, sitting over steams of warm water, sharp clysters, or suppositories made of honey, aloes, and rock-salt.

If the inflammation of the brain be occasioned by the stoppage of evacuations either natural or artificial, as the menses, issues, secons, or such like, all means must be used to restore them as soon as possi-

ble, or to substitute others in their stead.

The patient's body must be kept open by stimulating clysters or smart purges; and small quantities of nitre ought frequently to be mixed with his drink. Two or three drams, or more, if the case be dangerous, may be used in the space of twenty-sour hours.

The head should be shaved and frequently rubbed with vinegar and rose-water. Cloths dipped in this mixture may likewise be

applied to the temples. The feet ought frequently to be bathed in lukewarm water, and foft poultices of bread and milk may be kept constantly applied to them.

If the disease proves obstinate, and does not yield to these medicines, it will be necessary to apply a blistering plaster to the whole

head.

#### C H A P. XXVII.

# OF THE OPHTHALMIA, OR INFLAMMATION OF THE EYES.

THIS disease may be occasioned by external injuries; as blows, burns, bruises, and the like. It may likewise proceed from dust, quicklime, or other substances, getting into the eyes. It is often caused by the stoppage of customary evacuations; as the healing of old fores, drying of issues, the suppressing of genule morning sweats, or of the sweating of the feet, &c. Long exposure to the night air, especially in cold northerly winds, or whatever checks the perspiration, especially after the body has been much heated, is very apt to cause an inflammation of the eyes. Viewing snow or other white bodies for a long time, or looking stedsastly at the sun, a clear fire, or any bright object, will likewise occasion this malady. A sudden transition from darkness to very bright light will often have the same effect.

Nothing more certainly occasions an inflammation of the eyes than night-watching, especially reading or writing by candle-light. Drinking spirituous liquors, and excess of venery are likewise very hurtful to the eyes. The acrid fumes of metals, and of several kinds of fuel, are also pernicious. Sometimes an inflammation of the eyes proceeds from a venereal taint, and often from a scrophulous or gouty habit. It may likewise be occasioned by hairs in the eyelids turning inwards, and hurting the eyes. Sometimes the disease is epidemic, especially after wet seasons; and I have frequently known it prove infectious, particularly to those who lived in the fame honse with the patient. It may be occasioned by moist air, or living in low damp houses, especially in persons who are not accustomed to such situations. In children it often proceeds from imprudently drying up of scabbed heads, a running behind the ears, or any other discharge of that kind. Inflammations of the eyes often fucceed the small-pox or measles, especially in children of a scrophulous habit.

SYMPTOMS—An inflammation of the eyes is attended with scute pain, heat, redness, and swelling. The patient is not able to

bear the light, and fometimes he feels a pricking pain, as if his eyes were pierced with a thorn. Sometimes he imagines his eyes are full of motes, or thinks he fees flies dancing before him. The eyes are filled with a fealding rheum, which rushes forth in great quantities, whenever the patient attempts to look up. The pulse is generally quick and hard, with some degree of sever. When the disease is violent, the neighbouring parts swell, and there is a throbbing or pulsation in the temporal arteries, &c.

A flight inflammation of the eyes, especially from an external cause, is easily cured, but when the disease is violent, and continues long, it often leaves specks upon the eyes, or dimness of sight, and

fometimes total blindness.

If the patient be seized with a looseness, it has a good effect; and when the inflammation passes from one eye to another, as it were by infection, it is no unfavourable symptom. But when the disease is accompanied with a violent pain of the head, and continues long, the patient is in danger of loosing his sight.

REGIMEN.—The diet, unless in ferophulous cases, can hardly be too spare, especially at the beginning. The patient must abstain from every thing of a heating nature. His food should consist chiefly of mild vegetables, weak broths, and gruels. His drink may be barley-water, balm-tee, common whey, and such like.

The patient's chamber must be darkened, or his eyes shaded by a cover, so as to exclude the light, but not to press upon the eyes. He should not look at a candle, the fire, or any luminous object; and ought to avoid all smoke, as the sumes of tobacco, or any thing that may cause coughing, sneezing, or vomiting. He should be kept quiet, avoiding all violent efforts, either of body or mind, and en-

couraging fleep as much as possible.

MEDICINE.—This is one of those diseases wherein great hurt is often done by external applications. Almost every person pretends to be possessed of a remedy for the cure of sore eyes. These remedies generally consist of eye-waters and ointments, with other external applications, which do mischief twenty times for once they do good. People ought therefore to be very cautious how they use such things, as even the pressure upon the eyes often increases the malady.

Bleeding, in a violent inflammation of the eyes, is always necesfary. This should be performed as near the part affected as possible. An adult may lose ten or twelve ounces of blood from the jugular vein, and the operation may be repeated according to the urgency of the symptoms. If it should not be convenient to bleed in the neck, the same quantity may be let from the arm, or any other part of the

body.

Leeches are often applied to the temples, or under the eyes, with good effect. The wounds must be suffered to bleed for some hours, and if the bleeding stop soon, it may be promoted by the application of cloths dipt in warm water. In obstinate cases, it will be necas-

fary to repeat this operation feveral times.

Opening and diluting medicines are by no means to be neglected. The patient may take a finall dose of Glauber's falts, and cream of tartar, every second or third day, or a decocion of tamarinds with senna. If these be not agreeable, gentle doses of rhubarb and nitre, a little of the lenitive electuary, or any other mild purgative, will answer the same end. The patient at the same time must drink freely of water-gruel, tea, whey, or any other weak diluting liquor. He ought likewise to take, at bed-time a large draught of weak wine-whey, in order to promote perspiration. His seet and legs must frequently be bathed in lukewarm water, and his head shaved twice or thrice a-week, and afterwards washed in cold water. This has often a remarkably good effect.

If the inflammation does not yield to these evacuations, blistering-plasters must be applied to the temples, behind the ears, or upon the neck, and kept open for some time by the mild blistering-ointment. I have seldom known these, if long enough kept open, fail to remove the most obstinate inflammation of the eyes; but for this purpose it is often necessary to continue the discharge for

feveral weeks.

When the disease has been of long standing, I have seen very extraordinary effects from a seton in the neck, or between the shoulders, especially the latter. It should be put upwards and downwards, or in the direction of the spine and in the middle between the shoulder blades. It may be dressed twice a-day with yellow basilicon. I have known patients, who had been blind for a cosiderable time, recover sight by means of a seton placed as above. When the seton is put across the neck, it soon wears out and is both more painful and troublesome than between the shoulders; besides, it leaves a disagreeable mark, and does not discharge so freely.

When the heat and pain of the eyes are very great, a poultice of bread and milk, foftened with sweet oil or fresh butter, may be applied to them, at least all night; and they may be bathed with luke-

warm milk and water in the morning.

If the patient cannot fleep which is sometimes the case, he may take twenty or thirty drops of laudanum, or two spoonfuls of the symptoms of poppies, over night, more or less according to his age, or

the violence of the fymptoms.

After the inflammation is gone off, if the eyes still remain week and tender, they may be bathed every night and morning with cold water and a little brandy, fix parts of the former to one of the latter.

A method should be contrived by which the eye can be quite immersed in brandy and water, where it should be kept for some time. I have generally sound this, or cold water and vinegar, as good a strengthener of the eyes as any of the most celebrated col-

lyriums.

When an inflammation of the eyes proceeds from a fcrophulous habit, it generally proves very obstinate. In this case the patient's diet must not be too low, and he may be allowed to drink small negus, or now and then a glass of wine. The most proper medicine is the Peruvian bark, which may either be given in substance, or

prepared in the following manner:

Take an sounce of bark in powder, with two drams of Winter's bark, and boil them in an English quart of water to a pint; when it has boiled nearly long enough, add half an ounce of liquorice-root fliced. Let the liquor be strained. Two, three, or four table-spoonfuls, according to the age of the patient, may be taken three or four times a-day. It is impossible to say how long this medicine should be continued, as the cure is sooner performed in some than in others; but in general it requires a considerable time to produce any lasting effects.

to produce any lasting effects.

Dr. Cheyne says, 'That Æthiops mineral never fails in obstinate inflammations of the eyes, even scrophulous ones, if given in a sufficient dose, and duly persisted in.' There is no doubt but this and other preparations of mercury may be of singular service in ophthalmias of long continuance, but they ought always to be administered with the greatest caution, or by persons of skill in physic.

It will be proper frequently to look into the eyes, to fee if any hairs be turned inwards, or preffing upon them\*. These ought to be removed by plucking them out with a pair of small pincers.

Those who are liable to frequent returns of this disease, ought constantly to have an issue in one or both arms. Biceding or purging in the spring and autumn, will be very beneficial to such persons. They ought likewise to live with the greatest regularity, avoiding strong liquor, and every thing of a heating quality. Above all, let them avoid the night-air and late studies.

\* Any foreign body lodged in the eye may be expiditiously removed by passing a small hair pencil between the eye-lid and the ball of the eye. In some places, the peasants do this very effectually, by using their tongue in the same manner.

† As most people are fond of using eye-waters and ointments in this and other diseases of the eyes, we have inserted some of the most approved forms of these medicines in the Appendix. See Appendix, Eye-water and Eye-solve.

## C H A P. XXVIII.

OF THE QUINSEY, OR INFLAMMATION OF THE THROAT.

THIS disease is very common in Britain, and is frequently attended with great danger. It prevails in the winter and spring, and is most fatal to young people of a fanguine temperament.

CAUSES.—In general it proceeds from the same causes as other inflammatory disorders, viz. an obstructed perspiration, or whatever heats or inflames the blood. An inflammation of the throat is often occasioned by omitting some part of the covering usually worn about the neck, by dinking cold liquor when the body is warm, by riding or walking against a cold northerly wind, or any thing that greatly cools the throat, and parts adjacent. It may likewise proceed from the neglect of bleeding, purging, or any customary evacuation.

Singing, speaking loud and long, or whatever strains the throat, may likewise cause an inflammation of that organ. I have often known the quinfey prove statal to jovial companions, who, after sitting long in a warm room, drinking hot liquors, and singing with vehemence, were so imprudent as to go abroad in the cold night air. Sitting with wet feet, or keeping on wet clothes, are very apt to occasion this malady. It is likewise frequently occasioned by continuing long in a moist place, sitting near an open window, sleeping in a damp bed, sitting in a room that has been newly plastered, &c. I know people who never sail to have a fore throat if they sit even but a short time in a room that has been lately washed.

Acrid or irritating food may likewise inflame the throat, and occasion a quinsey. It may also proceed from bones, pins, or other sharp substances sticking in the throat, or from the caustic sumes of metals or minerals, as arsenic, antimony, &c. taken in by the

breath. This difease is sometimes epidemic and infectious.

SYMPTOMS.—The inflammation of the throat is evident from inspection, the parts appearing red and swelled; besides, the patient complains of pain in swallowing. His pulse is quick and hard, with other symptoms of a tever. If blood be let, it is generally covered with a tough coat of a whitish colour, and the patient spits a tough phlegm. As the swelling and inflammation increase, the breathing and swallowing become more difficult; the pain affects the ears; the eyes generally appear red; and the face swells. The patient is often obliged to keep himself in an creek posture, being in danger of sufficiation; there is a constant nausea, or inclina-

 $\mathbb{C}$  c

tion to vomit, and the drink, instead of passing into the stomach, is often returned by the nofe. The patient is fometimes starved at

last, merely from an inability to swallow any kind of food.

When the breathing is laborious with straitness of the breast, and anxiety, the danger is great. Though the pain in swallowing be very great, yet while the patient breathes eafy, there is not fo much danger. An external fwelling is no unfavourable fymptom; but if it fuddenly falls, and the disease affects the breast, the danger is very great. When the quinfey is the confequence of some other discase, which has already weakened the patient, his situation is dangerous. A frothing at the mouth, with a swelled tongue, a pale, ghaftly countenance, and coldness of the extremities, are fa-

REGIMEN.—The regimen in this difease is in all respects the same as in the pleurify or peripneumony. The food must be light, and in small quantity, and the drink plentiful, weak, and diluting,

mixed with acids.

It is highly necessary that the patient be kept easy and quiet. Violent affections of the mind, or great efforts of the body, may prove fatal. He should not even attempt to speak but in a low Such a degree of warmth as to promote a constant, gentle fweat, is proper. When the patient is in bed, his head ought to be

raifed a little higher than ufual.

It is peculiarly necessary that the neck be kept warm: for which purpose several folds of soft stannel may be wrapt round it. That alone will often remove a flight complaint of the throat, especially if applied in due time. We cannot here omit observing, the propriety of a custom which prevails among the peasants of Scotland. When they feel any uneafiness of the throat, they wrap a stocking about it all night. So effectual is this remedy, that in many places it passes for a charm, and the stocking is applied with particular ceremonies: the custom, however, is undoubtedly a good one, and thould never be neglected. When the throat has been thus wrapped up all night, it must not be exposed to the cold air through the day, but a handkerchief or piece of flannel kept about it till the inflammation be removed.

The jelly of black currants is a medicine very much in effect for complaints of the throat; and indeed it is of some use. It should be almost constantly kept in the mouth, and swallowed down leifnrely. It may likewise be mixed in the patient's drink, or taken any other way. When it cannot be obtained, the jelly of red cur-

rants, or of mulberries, may be used in its stead.

Gargles for the throat are very beneficial. They may be made of fage-tea, with a little vinegar and honey, or by adding to half an English pint of the pectoral decoction two or three speonfuls of

honey, and the same quantity of currant-jelly. This may be used three or four times a-day; and if the patient be troubled with tough viscid phlegm, the gargle may be rendered more sharp and cleansing, by adding to it a tea-spoonful of the spirit of fal ammoniac. Some recommend gargles made of a decoction of the leaves or bark. of the black currant bush; but where the jelly can be had, these are unnecessary.

There is no disease wherein the benefit of bathing the feet and legs in luke-warm water is more apparent: that practice ought therefore never to be neglected. If people were careful to keep warm, to wrap up their throats with flannel, to bathe their feet and legs in warm water, and to use a spare diet, with diluting lignors, at the beginning of this difease, it would seldom proceed to a great height, or be attended with any danger; but when these precautions are neglected, and the disease becomes violent, more powerful medicines are necessary.

NEDICINE.—An inflammation of the throat being a most acute and dangerous distemper, which sometimes takes off the patient very fuddenly, it will be proper, as foon as the fymptoms appear, to bleed in the arm, or rather in the jugular vain, and to

repeat the operation if circumstances require.

The body should likewise be kept gently open. This may either be done by giving the patient for his ordinary drink a decoction of figs and tamarinds, or fmall doses of rhubarb and nitre, as recommended in the eryfipelas. These may be increased according to the age of the patient, and repeated till they have the defired effect.

I have often known very good effects from a bit of fal prunel, or purified nitre, held in the mouth, and swallowed down as it melted. This promotes the discharge of falina, by which means it answers the end of a gargle, while at the same time it abates the fever, by

promoting the discharge of urine, &c.

The throat ought likewise to be rubbed twice or thrice a-day with a little of the volatile liniment. This feldom fails to produce fomo good effects. At the same time the neck ought to be carefully covered with wool or flannel, to prevent the cold from penetrating the skin, as this application renders it very tender. Many other external applications are recommended in this difeafe, as a swallow's nest, poultices made of the fungus called Jew's ears, album Græcum, &c. But as we do not look upon any of these to be preferable to a common poultice of bread and milk we shall take no farther notice of them.

Some recommend the gum-guaicum as a specific in this disease. Half a dram of the gum in powder may be made into an electuary with the rob of elder-berries, or the jelly of currants for a dofe, and repeated occasionally\*.

\* Dr Home.

and repeated occasionally\*.

Blistering upon the neck or behind the ears in violent inflammations of the throat is very beneficial; and in bad cases it will be necessary to lay a blistering plaster quite across the throat, so as to reach from ear to ear. After the plasters are taken off, the parts ought to be kept running by the application of issue ointment, till the inflammation is gone; otherwise upon their drying up, the pa-

tient will be in danger of a relapse.

When the patient has been treated as above, a suppuration seldom happens. This however is usetimes the case, in spite of all endeavours to prevent it. When the inflammation and swelling continue, and it is evident that a suppuration will ensue, it ought to be promoted by drawing the steam of warm water into the throat through a funnel, or the like. Soft poultices ought likewise to be applied outwardly, and the patient may keep a roasted fig constantly in his mouth.

It sometimes happens before the tumour breaks, that the swelling is so great, as entirely to prevent any thing from getting down into the stomach. In this case the patient must inevitably perish, unless he can be supported in some other way.

This can only be done by nourithing clyfters of broth, or gruel with milk, &c. Patients have often been supported by these for several days, till the tumour has broke; and afterwards they have

recovered.

Not only the swallowing, but the breathing, is often prevented by the tumour. In this case nothing can save the patients life, but opening the treachea or wind pipe. As that has been often done with success, no person, in such desperate circumstances ought to hesitate a moment about the operation; but as it can only be personmed by a surgeon, it is not necessary here to give any directions about it.

When a difficulty of swallowing is not attended with an acute pain or inflammation, it is generally owing to an obstruction of the glands about the throat, and only requires that the part be kept warm, and the throat frequently gargled with something that may gently stimulate the glands, as a decoction of sigs with vinegar and honey; to which may be added a little mustard, or a small quantity of spirits. But this gargle is never to be used where there are signs of an inflammation. This species of anginia has various names among the common people, as the tap of the throat, the falling down of the almonds of the ears, &c. Accordingly, to remove it, they lift the patient up by the hair of the head, and thrust their singers under his jaws, &c. all which practices are at best useless, and often hurtful.

Those who are subject to inflammations of the throat, in order to avoid that disease, ought to live temperate. Such as in not choose to

observe this fule, must have frequent recourse to purging and other evacuations, to discharge the superstitious humours. They ought likewise to beware of catching cold, and should abstain from aliment

and medicines of an aftringent or stimulating nature.

Violent exercife, by increasing the motion and face of the blood, is apt to occasion an inflammation of the throat, especially if cold liquor be drank immediately after it, or the body suffered suddenly to cool. Those who would avoid this disease ought therefore, after speaking aloud, singing, running, drinking warm liquor, or doing any thing that may strain the throat, or increase the circulation of the blood towards it, to take care to cool gradually, and to wrap some additional covering about their necks.

I have often known perfors who had been subject to sore throats, entirely freed from that complaint by only wearing a riband, or a bit of slannel, constantly about their necks, or by wearing thicker shoes, a stannel waistcoat, or the like. These may seem trisling, but they have great effect. There is danger indeed in leaving them off after persons have been accustomed to them; but surely the inconveniency of using such things for life, is not to be compared

with the danger that may attend the neglect of them.

Sometimes, after an inflammation, the glands of the throat continue swelled, and become hard and callous. This complaint is not easily removed, and is often rendered dangerous by the too frequent-application of strong stimulating and styptic medicines, The best method is to keep it warm, and to gargle it twice a-day with a decoction of sign sharpened a little with the clinic or spirit of vitriol.

## OE THE MALIGNANT QUINSEY, OR PUTRID ULCEROUS SORE THROAT.

This kind of quinfey is but little known in the northern parts of Britain, though, for fome time past, it has been fatal in the more southern countries. Children are more liable to it than adults, females than males, and the delicate than those who are hardy and robust. It prevails chiefly in autumn; and is most frequent after

a long course of damp or fultry weather.

CAUSES.—This is evidently a contagious distemper, and is generally communicated by infection. Whole families, and even entire villages, often receive the infection from one person. This ought to put people upon their guard against going near such patients as labour under the disorder; as by that means they endanger not only their own lives, but likewise those of their friends and connexions. Whatever tends to produce putrid malignant severs, may likewise occasion the putrid ulcelous fore throat, as unwholesome air, damaged provisions, neglect of cleanlines, &c.

SYMPTOMS.—It begins with alternate fits of shivering, and heat. The pulse is quick, but low and uneaqual, and generally

continues so through the whole course of the disease.

The patient complains greatly of weakness and oppression of the breast; his spirits are low, and he is apt to faint away when set upright; he is troubled with a nausea, and often with a vomiting or purging. The two latter are most common in children. The eyes appear red and watery, and the face swells. The urine is at first pale and crude; but as the disease advances, it turns more of a yellowish colour. The tongue is white and generally most, which distinguishes this from an inflammatory disease. Upon looking into the throat it appears swelled, and of a florid red colour. Pale or ash-coloured spots, however, are here and there interspersed, and sometimes one broad patch or spot, of an irregular figure, and pale white colour, surrounded with florid red only appears. These whitish spots or sloughs cover so many ulcers.

An efflorescence, or eruption upon the neck, arms, breast, and fingers, about the second or third day, is a common symptom of this disease. When it appears, the purging and vomiting generally cease.

There is often a flight degree of delirium, and the face frequently appears bloated, and the infide of the nostrils red and inflamed. The patient complains of a difagreeable putrid smell, and his breath is very offensive.

The putrid, ulcerous fore throat may be diffinguished from the inflammatory by the vomiting and looseness with which it is generally ushered in; the foul ulcers in the throat covered with a white or livid coat; and by the excessive weakness of the patient; with

other symptoms of a puttrid fever.

Unfavourable fymptoms are, an obstinate purging, extreme weakness, dimness of the fight, a livid or black colour of the spots, and frequent shiverings, with a weak, fluttering puble. If the eruption upon the skin suddenly disappears, or becomes of a livid colour, with a discharge of blood from the nose or mouth the danger is very great.

If a gentle sweat break out about the third or fourth day, and continue with a flow, firm, and equal pulse; if the floughs cast off in a kindly manner, and appear clean and florid at the bottom; and if the hreathing is soft and free, with a lively colour of the eyes,

there is reason to hope for a salutary crisis.

REGIMEN.—The patient must be kept quiet, and for the most part in bed, as he will be apt to faint when taken out of it. His food must be nourishing and restorative, as sago-gruel, with red wine, jellies, strong broths, &c. His drink ought to be generous, and of an antiseptic quality; as red wine, negus, white-wine whey, and such like.

MEDICINE.—The medicine in this kind of quinfey is entirely different from that which is proper in the inflammatory. All evacuations, as bleeding, purging, &c. which weaken the patient, must be avoided. Cooling medicines, as nitre and cream of tartar, are likewise hurtful. Strengthening cordials alone can be used with safety; and these ought never to be neglected.

If at the beginning there is a great nausea or inclination to vomit, the patient must drink an infusion of green-tea, camomile flowers, or carduus benedictus, in order to cleanse the stomach. If these are not sufficient, he may take a few grains of the powder of ipe-

cacuanha, or any other gentle vomit.

If the difease is mild, the throat may be gargled with an infusion of lage and rose leaves, to a jill of which may be added a spoonful or two of honey, and as much vinegar as will make it agreeably acid; but when the symptoms are urgent, the sloughs large and thick, and the breath very offensive, the sollowing gargle may be used:

To fix or seven ounces of the pectoral decoction, when boiling, add half an ounce of contraverva-root; let it boil for some time, and afterwards strain the liquor; to which add two ounces of white wine vinegar, an ounce of fine honey, and an ounce of the tincture of myrrh. This ought not only to be used as a gargle, but a little of it should frequently be injected with a syringe to clean the throat before the patient takes any meat or drink. This method is peculiarly necessary for children, who cannot use a gargle.

It will be of great benefit if the patient frequently receives into his mouth, through an inverted funnel, the steams of warm vine-

gar, myrrh, and honey.

But when the putrid fymptoms run high, and the disease is attended with danger, the only medicine that can be depended upon is the Peruvian bark. It may be taken in substance, if the patient's stomach will bear it. If not, an ounce of bark grossly powdered, with two drams of Virginian snake-root, may be boiled in an English pint and a half of water to half a pint; to which a tea-spoonful of the elixir of vitriol may be added, and an ordinary tea-cupful of it taken every three or four hours. Blistering-plasters are very beneficial in this disease, especially when the patient's pulse and spirits are low. They may be applied to the throat, behind the ears, or upon the back part of the neck.

Should the vomiting prove troublesome, it will be proper to give the patient two table-spoonfuls of the saline julep every hour. Tea made of mint and a little cinnamon will be very proper for his ordinary drink, especially if an equal quantity of red wine be mixed

with it.

In case of a violent looseness, the fize of a nutmeg of diascenium, or the japonic consection, may be taken two or three times aday, or oftener, if necessary.

If a discharge of blood from the nose happens, the seams of warm vinegar may be received up the nostrils frequently; and the drink may be sharpened with spirits of vitriol, or tincture of roses.

In case of a stangury, the belly must be fomented with warm wa-

ter, and emollient clyfters given three or four times a-day.

After the violence of the disease is over, the body should still be kept open with mild purgatives; as manna, senna, rhubarb, or the

like.

If great weakness and dejection of spirits, or night-sweats, with other symptoms of a consumption, should ensue, we would advise the patient to continue the use of the Peruvian bank, with the elixir of vitriol, and to take frequently a glass of generous wine. These, together with a milk diet, and riding on horseback, are the most likely means for recovering his strength.

# C H A P. XXIX.

## OF COLDS AND COUGHS.

IT has already been observed, that colds are the effect of an observed perspiration: the common causes of which we have likewise endeavoured to point out, and shall not here repeat them. Neither shall we spend time in enumerating all the various symptoms of colds, as they are pretty generally known. It may not however be amiss to observe, that almost every cold is a kind of sever, which only differs in a degree from some of those that have al-

ready been treated of.

No age, fex, or conflitution, is exempted from this difease; neither is it in the power of any medicine or regimen to prevent it. The inhabitants of every climate are liable to catch cold, nor can even the greatest circumspection defend them at all times from its attacks. Indeed, if the human body could be kept constantly in a uniform degree of warmth, such a thing as catching cold would be impossible: but as that cannot be effected by any means, the perspir - n must be liable to many changes. Such changes, however, when small do not affect the health, but when great, they must prove hurtful.

When oppression of the breast, a stuffing of the nose, unusual weariness, pain of the head, &c. give ground to believe that the perspiration is obstructed, or, in other words that the person has caught cold, he ought immediately to lessen his diet, at least the

usual quantity of his solid sood, and to abstain from all strong liquors. Instead of slight, sish, eggs, milk, and other nourishing diet, he may eat light bread-pudding, veal or chicken broth, panado, gruels, and such like. His drink may be water-gruel sweetened with a little honey; an insusion of balm, or linseed oil sharpened with the juice of orange or lemon; a decoction of barley and liquorice, with tamarinds, or any other cool, diluting, acid liquor.

Above all, his supper should be light; as small posset, or water gruel, sweetened with honey, and a little toasted bread in it. If honey should disagree with the stomach, the gruel may be sweetened with treacle or course sugar, and sharpened with the jelly of currants. Those who have been accustomed to generous liquors may take wine-whey instead of gruel, which may be sweetened as

above.

The patient ought to lie longer than usual a-bed, and to encourage a gentle sweat, which is easily brought on towards morning, by drinking tea, or any kind of warm diluting liquor. I have often known this practice carry off a cold in one day, which in probability, had it been neglected, would have cost the patient his life, or have confined him for some months. Would people facrifice a little time to ease and warmth, and practise a moderate degree of abstinence when the first symptoms of a cold appear, we have reason to believe, that most of the bad effects which flow from an obstructed perspiration might be prevented. But, after the disease has gathered strength by delay, all attempts to remove it often prove vain. A pleurify, a peripneumony, or a faral consumption of the lungs, are the common effect of colds which have either been totally neglected or treated improperly.

Many attempt to cure a cold, by getting drunk: But this, to fay no worse of it, is a very hazardous experiment. No doubt it may sometimes succeed, by suddenly restoring the perspiration; but when there is any degree of inflammation, which is frequently the case, strong liquors, instead of removing the malady, will increase it. By this means a common cold may be converted into an inflam-

matory fever.

When those who labour for their daily bread have the missortune to catch cold, they cannot afford to lose a day or two, in order to keep themselves warm, and take a little medicine; by which means the disorder is often so aggravated as to confine them for a long time or even to render them ever after unable to sustain hard labour. But even such of the labouring poor as can afford to take care of themselves, are often too hardy to do it; they affect to despise colds, and as long as they can crawl about, scorn to be confined by what they call a common cold. Hence it is, that colds destroy such numbers of mankind. Like an enemy despised, they gather strength from de-

lay, till at length they become invincible. We often see this verified in travellers, who, rather than lose a day in the prosecution of their business, throw away their lives by pursuing their journey,

even in the severest weather, with this disease upon them.

It is certain, however, that colds may be too much indulged.— When a person, for every slight cold, shuts himself up in a warm room, and drinks great quantities of warm liquor, it may occasion fuch a general relaxation of the folids as will not be eafily removed. It will therefore be proper, when the disease will permit, and the weather is mild, to join to the regimen mentioned above, gentle exercife; as walking, riding on horseback, or in a carriage, &c. An obstinate cold, which no medicine can remove, will yield to gentle exercise, and a proper regimen of the diet.

Bathing the feet and legs in warm water has a great tendency to restore the perspiration. But care must be taken that the water be not too warm, otherwise it will do hurt. It should never be much warmer than the blood, and the patient should go immediately to bed after using it. Bathing the feet in warm water, lying in bed, and drinking warm water-gruel, or other weak liquors, will fooner take off a spasm, and restore the perspiration, than all the hot sudorific medicines in the world. This is all that is necessary for removing a common cold; and if we courfe be taken at the beginning, it will feldom fail.

But when the fymptoms do not yield to abilinence, warmth, and diluting liquors, there is reason to fear the approach of some other disease, as an inflammation of the break, an ardent fever, or the like. If the pulse therefore be hard and frequent, the skin hot and dry, and the patient complains of his head or breaft, it will be neceffary to bleed, and to give the cooling powders recommended in the scarlet fever, every three or four hours, till they give a stool.

It will likewise be proper to put a blistering plaster on the back, to give two table-spoonfuls of the saline mixture every two hours, and in short to treat the patient in all respects as for a slight fever. I have often feen this courfe, when observed at the beginning, remove the complaint in two or three days, when the patient had all the symptoms of an approaching ardent fever, or an inflammation of the breaft.

The chief fecret of preventing colds lies in avoiding, as far as possible, all extremes either of heat or cold, and in taking care, when the body is heated, to let it cool gradually. These and other circumstances relating to this important subject, are so fully treated of under the article Obstructed Perspiration, that it is needless here

to refume the confideration of them.

### OF A COMMON COUGH.

A cough is generally the effect of a cold, which has either been improperly treated, or entirely neglected. When it proves obstinate, there is always a reason to fear the consequences, as this shews a weak state of the lungs, and is often the forerunner of a confumption.

If the cough be violent, and the patient young and flrong, with a hard quick pulse, bleeding will be proper; but in weak and relaxed habits, bleeding rather prolongs the disease. When the patient spits freely, bleeding is unnecessary, and sometimes hurtful,

as it tends to lessen that discharge.

When the cough is not attended with any degree of fever, and the spittle is viscid and tough, sharp pectoral medicines are to be administered; as gum ammoniac, squills, &c. Two table-spoonfuls of the solution of gum ammoniac may be taken three or four times a-day, more or less, according to the age and constitution of the patient. Squills may be given various ways: two ounces of the vinegar, the oxymel, or the syrup, may be mixed with the same quantity of simple cinnamon water, to which may be added an ounce of common water and an ounce of balsamic syrup. Two table-spoonfuls of this mixture may be taken three or four times a-day.

A fyrup made of equal parts of lemon-juice, honey, and fugarcandy, is likewife very proper in this kind of cough. A table-

spoonful of it may be taken at pleasure.

But when the defluxion is sharp and thin, these medicines rather do hurt. In this case gentle opiates, oils, and mucilages, are more proper. A cup of an infusion of wild poppey leaves, and marshmallow roots, or the flowers of colts-foot, may be taken frequently; or a tea-spoonful of the paregoric elixir may be put into the patient's drink twice a-day. Fuller's Spanish insusion is also a very proper medicine in this case, and may be taken in the quantity of a tea-cupful three or four times a-day\*.

When a cough is occasioned by acrid humours tickling the throat and fauces, the patient should keep some soft pectoral lozenges almost constantly in his mouth; as the Pontefract liquorice cakes, barlev-sugar, the common balsamic lozenges, Spanish juice, &c. These blunt the acrimony of the humours, and by taking off their

stimulating quality, help to appeale the cought.

\* See Appendix, Spanish Infusion,

+ In a former edition of this book I recommended, for an oblinate tickling cough, an oily emulsion, made with the paregoric elixir of the Edinburgh Diffensatory, instead of the common alkaline spirit. I have since been told by several practitioners, that they found it to be an excel-

In obstinate coughs, proceeding from a flux of humours upon lungs, it will often be necessary, besides expectorating medicines, to have recourse to issue, set fetons, or some other drain. In this case I have often observed the most happy effects from a Burgundy-pitch plaster applied between the shoulders. I have ordered this simple remedy in the most obstinate coughs, in a great number of cases, and in many different constitutions, without ever knowing it fail to give relief, unless where there were evident signs of an ulcer in the

lungs.

About the bulk of a nutmeg of Burgundy-pitch may be fpread thin upon a piece of foft leather, about the fize of the hand, and laid between the shoulder-blades. It may be taken off and wiped every three or four days, and ought to be renewed once a fortnight or three weeks. This is indeed a cheap and simple medicine, and consequently apt to be despised: but we will venture to affirm, that the whole materia medica does not afford an application more essications in almost every kind of cough. It has not indeed always an immediate effect; but, if kept on for some time, it will succeed where most other medicines sail.

The only inconveniency attending this plaster is the itching which it occasions: but surely this may be dispensed with, considering the advantage which the patient may expect to reap from the application: besides, when the itching becomes very uneasy, the plaster may be taken off, and the part rubbed with a dry cloth, or washed with a little warm milk and water. Some caution indeed is necessary in discontinuing the use of such a plaster; this however may be safely done by making it smaller by degrees, and at length quitting

it altogether in a warm feafon\*.

But coughs proceed from many other causes besides dessuctions upon the lungs. In these cases the cure is not to be attempted by pectoral medicines. Thus, in a cough proceeding from a soulness and debility of the stomach, syrups, oils, mucilages, and all kinds of balsamic medicines do hurt. The stomach cough may be known from one that is owing to a fault in the lungs by this, that in the

lent medicine in this diforder, and every way deferving of the character which I had given it. Where this elixir is not kept, its place may be supplied by adding to the common oily emulsion, an adequate proportion of

the Thebaic tincture, or liquid laudanum.

\* Some complain that the pitch plaster adheres too fast, while others find difficulty in keeping it on. This proceeds from the different kinds of pitch made use of, and likewise from the manner of making it. I generally find it answer best when mixed with a little bees-wax, and spread as cool as possible. The clear, hard, transparent pitch as were the purpose best.

latter the patient coughs whenever he respires, or draws in his

breath fully; but in the former that does not happen.

The cure of this cough depends chiefly upon, cleanling and strengthening the stomach; for which purpose gentle vomits and bitter purgatives are most proper. Thus, after a vomit or two, the facred uncture, as it is called, may be taken for a considerable time in a dose of one or two table-spoonfuls twice a-day, or as often as it is found necessary, to keep the body gently open. People may make this tincture themselves, by infusing an ounce of biera piera\* in an English pint of white wine, letting it stand a few days, and then straining it.

In coughs which proceed from a debility of the stomach, the Peruvian bark is likewife of considerable service. It may either be chewed, taken in powder, or made into a tincture along with

other flomachic bitters.

A nervous cough can only be removed by change of air and proper exercise; to which may be added the use of gentle opiates. Inflead of the saponaceous pill, the paregoric elixir, &c. which are only opium disguised, ten, sisteen, twenty, or twenty-five drops of liquid laudanum, more or less, as circumstances require, may be taken at bed-time, or when the cough is most troublesome. Immersing the seet and hands in warm water will often appease the

violence of a nervous cough.

When a cough is only the fymptom of some other malady, it is in vain to attempt to remove it without first curing the disease from which it proceeds. Thus when a cough is occasioned by teething, keeping the body open, scarifying the gums, or whatever facilitates the cutting of the teeth, likewise appeases the cough. In like manner when worms occasion a cough, such medicines as remove these vermin will generally cure the cough; as bitter purgatives, oily clysters, and such like.

Women during the last months of pregnancy, are often greatly afflicted with a cough, which is generally relieved by bleeding, and keeping the body gently open. They ought to avoid all flatulent

food, and to wear a loofe easy dress.

A cough is not only a fymptom, but is likewise the fore-runner of discases. Thus, the gout is frequently ushered in by a very troublesome cough, which affects the patient for some days before the coming on of the sit. This cough is generally removed by a paroxysm of the gout, which should therefore be promoted, by keeping the extremities warm, drinking warm liquors, and bathing the feet and legs frequently in luke-warm water

<sup>\*</sup> See Appendix, Hiera Picra.

### OF THE HOOPING OR CHIN-COUGH.

This cough feldom affects adults, but proves often fatal to children. Such children as live upon thin watery diet, who breathe unwholesome air, and have too little, exercise, are most liable to

this difease, and generally suffer most from it.

The chin-cough is so well known, even to nurses, that a description of it is unnecessary. Whatever harts the digestion, obstructs the perspiration, or relaxes the solids, disposes to this disease: consequently its cure must depend upon cleanling and strengthening the stomach, bracing the solids, and at the same time promoting personal strengths.

spiration and the different secretions.

The diet must be light, and of easy digestion; for children, good bread made into pap or pudding, chicken-broths, with other light spoon-meats, are proper: but those who are farther advanced may be allowed sago-gruel, and if the sever be not high, a little boiled chicken, or other white meats, The drink may be hyssop, or penny-royal tea, sweetened with honey, or sugar-candy, small wine whey; or, if the patient be weak, he may sometimes be allowed a little negus.

One of the most effectual remedies in the chin-cough is change of air. This often removes the malady, even when the change seems to be from a purer to a less wholesome air. This may in some measure depend on the patient's being removed from the place where the infection prevails. Most of the diseases of children are infectious: nor is it at all uncommon to find the chin-cough prevailing in one town or village, when another, at a very small distance, is quite free from it. But whatever be the cause, we are sure of the fact. No time ought therefore to be lost in removing the patient at some distance from the place where he caught the disease, and, if possible, into a more pure and warm air\*.

When the disease proves violent, and the patient is in danger of being suffocated by the cough, he ought to be bled, especially if there be a fever with a hard full pulse. But as the chief intention of bleeding is to prevent an inflammation of the lungs, and to render it more safe to give vomits, it will seldom be necessary to repeat the operation; yet if there are symptoms of an inflammation of the

lungs, a second or even a third bleeding may be requisite.

<sup>\*</sup> Some think the air ought not to be changed till the disease is on the decline; but there seems to be no sufficient reason for this opinion, as patients have been known to reap benefit from a change of air at all periods of the disease. It is not sufficient to take the patient out daily in a carriage. This seldom answers any good purpose; but often does hurt, by giving him cold.

It is generally reckoned a favourable symptom when a fit of coughing, makes the patient vomit. This cleanses the stomach, and greatly relieves the cough. It will therefore be proper to promote this discharge, either by small doses of ipecacuanha, or the vomit-

ing julep recommended in the Appendix\*.

It is very difficult to make children drink after a vomit. I have often seen them happily deceived, by infusing a scruple or half a dram of the powder of ipecacuanha in a tea-pot, with half an English pint of boiling water. If this be disguised with a few drops of milk and a little sugar, they will imagine it tea, and drink it very greedily. A small tea-cupful of this may be given every quarter of an hour, or rather every ten minutes, till it operates. When the child begins to puke, there will be no occasion for drinking any more, as the water already on the stomach will be sufficient.

Vomits not only cleanse the stomach, which in this disease is generally loaded with viscid phlegm, but they likewise promote the perspiration and other secretions, and ought therefore to be repeated according to the obstinacy of the disease. They should not, however, be strong; gentle vomits frequently repeated are both less dan-

gerous, and more beneficial than strong ones.

The body ought to be kept gently open. The best medicines for this purpose, are rhubarb and its preparations, as the syrup, tincture, &c. Of these a tea-spoonful or two may be given to an infant twice or thrice a-day, as there is occasion. To such as are farther advanced, the dose must be proportionally increased, and repeated till it has the desired effect. Those who cannot be brought to take the bitter tincture, may have an infusion of senna and prunes, sweetened with manna, coarse sugar, or honey; or a few grains of rhubarb mixed with a tea-spoonful or two of syrup, or currant jelly, so as to disguise the taste. Most children are fond of syrups and jellies, and seldom resuse even a disagreeable medicine when mixed with them

Many people believe that oily, pectoral, and balfamic medicines possess wonderful virtues for the cure of the chin-cough, and accordingly exhibit them plentifully to patients of every age and constitution, without considering that every thing of this nature must load the stomach, burt the digestion, and of course aggravate the

difordert.

\* See Appendix, Vomiting Julep.

† Dr. Duplanil says, he has seen many good effects from the kermes mineral in this complaint, the cough being frequently alleviated even by the first dose. The dose for a child of one year old, is a quarter of a grain dissolved in a cup of any liquid, repeated two or three times a-day.

The millepedes, or woodlice, are greatly recommended for the cure of a chin-cough. Those who choose to make use of these insects, may insufe two ounces of them bruised in an English pint of small white-wine for one night. Afterwards the liquor may be strained through a cloth, and a table-spoonful of it given to the patient three or four times a-day.

Opiates are fometimes necessary to allay the violence of the cough. For this purpose a little of the syrup of poppies, or five, fix, or seven drops of laudanum, according to the age of the patient, may be taken in a cup of hyssop or penny-royal tea, and repeated occa-

fionally\*.

The garlic ointment is a well known remedy in North-Britain, for the chin-cough. It is made by beating in a mortar garlic with an equal quantity of hog's lard. With this the foles of the feet may be rubbed twice or thrice a-day; but the best method is to spread it upon a rag, and apply it in the form of a plaster. It should be renewed every night and morning at least, as the garlic soon loses its virtue. This is an exceeding good medicine both in the chin-cough, and in most other coughs of an obstinate nature. It ought not however to be used when the patient is very hot or severish, less it should increase these symptoms.

The feet should be bathed once every two or three days in lukewarm water; and a burgundy-pitch plaster kept constantly between the shoulders. But when the disease proves very violent, it will be necessary, instead of it, to apply a blistering plaster, and to keep

the part open for some time with issue-cintment.

When the disease is prolonged, and the patient is free from a sever, the Peruvian bark, and other bitters, are the most proper medicines. The bark may either be taken in substance, or in a decoction or insusion, as is most agreeable. For a child, ten, sisteen, or twenty grains, according to the age of the patient, may be given three and four times a-day. For an adult, half a dram or two scruples will be proper. Some give the extract of the bark with cantharides; but to manage this requires a considerable attention. It is more safe to give a few grains of castor along with the bark. A child of six or seven years of age may take seven or eight grains of castor, with sisteen grains of powdered bark, for a dose.

For a child of two years, the dose is half a grain; and the quantity must

be thus increased to the age of the patient.

\* Some recommend the extract of kemlock as an extraordinary remedy in the hooping-cough; but so far as I have been able to observe, it is no way superior to opium, which, when properly administered, will often remove some of the most troublesome symptoms of this disorder.

This may be made into a mixture with two or three ounces of any fimple distilled water, and a little fyrup, and taken three or four times a-day\*.

#### C H A P. XXX.

### INFLAMMATION OF THE STOMACH, AND OTHER VISCERA.

ALL inflammations of the bowels are dangerous, and require the most speedy assistance; as they frequently end in a suppuration, and sometimes in a mortification, which is certain death.

CAUSES.—An inflammation of the stomach may proceed from any causes which produce an inflammatory sever; as cold liquor drank while the body is warm, obstructed perspiration, or the sudden striking in of any eruption. It may likewise proceed from the acrimony of the bile, or from acrid and stimulating substances taken into the stomach; as strong vomits or purges, corrosive poisons, and suck like. When the gout has been repelled from the extremities, either by cold or improper applications, it often occasions an inflammation of the stomach. Hard or indigestible substances taken into the stomach, as bones, the stones of fruits, &c. may likewise have that effect.

SYMPTOMS.—It is attended with a fixed pain and burning heat in the stomach; great restlessness and anxiety; a small, quick, and hard pulse: vomiting, or, at least, a nausea and sickness; excessive thirst; coldness of the extremitles; difficulty of breathing; cold clammy sweats; and sometimes convulsions and fainting sits. The stomach is swelled and often feels hard to the touch. One of the most certain signs of this disease is the sense of pain, which the patient feels upon taking any kind of food or drink, especially if

it be too hot or too cold.

When the patient vomits every thing he eats or drinks, is extremely restless, as a hiccough, with an intermitting pulse, and

frequently fainting fits, the danger is very great.

REGIMEN.—All acrimonious, heating, and irritating food and drink are carefully to be avoided. The weakness of the patient may deceive the by-standers, and induce them to give him wines, spirits, or other cordials; but these never fall to increase the disease, and often occasion sudden death. The inclination to vomit

<sup>\*</sup> As this diferse is evidently spasmodic, I am inclined to think that tonic medicines will in time be found the most proper for its cure.

may likewise impose upon the attendants, and make them think a

vomit necessary; but that too is almost certain death.

The food must be light, thin, cool, and easy of digestion. It must be given in small quantities, and should neither be quite cold nor too hot. Thin gruel made of barley or oatmeal, light toafted bread diffolved in boiling water, or very weak chicken broth, are the most proper. The drink should be clear whey, barley-water, water in which toasted bread has been boiled, or decoctions of emollient vegetables: as liquorice and marshmallow roots, sarlaparilla, or the like.

MEDICINE.—Bleeding in this discase is absolutely necessary. and is almost the only thing that can be depended on. disease proves obstinate, it will be often proper to repeat this operation several times, nor must the low state of the pulse deter us from doing fo. The pulse indeed generally rifes upon bleeding,

and as long as that is the case, the operation is safe.

Frequent fomentations with luke-warm water, or a decoction of emollient vegetables, are likewise beneficial. Flannel cloths dipped in these must be applied to the region of the stomach, and removed as they grow cool. They must neither be applied too warm, nor be suffered to continue till they become quite cold, as either of these extremes would aggravate the disease.

The feet and legs ought likewise to be frequently bathed in lukewarm water, and warm bricks or poultices may be applied to the foles of the feet. The warm bath, if it can be conveniently uled,

will be of great fervice.

In this, and all other inflammations of the bowels, an epispastic, or bliftering plafter, applied over the part affected, is one of the best remedies I know. I have often nsed it, and do not recollect

one instance wherein it did not give relief to the patient.

The only internal medicines which we shall venture to recommend in this discase, are mild clysters. These may be made of warm water, or thin water gruel; and if the patient is costive, a little sweet oil, honey, or manna, may be added. Clysters answer the purpose of an internal fomentation, while they keep the body open, and at the same time nourish the patient, who is often in this disease unable to retain any food upon his stomach. For these reasons they must not be neglected, as the patient's life may depend on them.

#### INFLAMMATION OF THE INTESTINES.

This is one of the most painful and dangerous diseases that mankind is hable to. It generally proceeds from the same causes as the inflammation of the stomach; to which may be added costiveness, worms, cating unripe fruits, or great quantities of nuts, drinking

hard windy malt liquors, as stale bottled beer or ale, sour wine, cider, &c. It may likewise be occasioned by a rupture, by schirrous tumours of the intestines, or by their opposite sides growing together.

The inflammation of the intestines is denominated Iliac passion, Enteritis, &c. according to the parts affected. The treatment however is nearly the same whatever part of the intestinal canal be the feat of the disease; we shall therefore omit these distinctions, lest

they should perplex the reader.

The symptoms here are nearly the same as in the foregoing disease: only the pain, if possible, is more acute, and is situated lower. The vomiting is likewise more violent, and sometimes even the excrements, together with the clysters, are discharged by the mouth. The patient is continually belching up wind, and has often an ob-

struction of his urine.

While the pain shifts and the vomiting only returns at certain intervals, and while the clyfters pass downwards, there is ground for hope; but when the clysters and faces are vomited, and the patient is exceeding weak, with a low fluttering pulse, a pale countenance, and a disagreeable or stinking breath, there is great reason to fear that the consequences will prove fatal. Clammy sweats, black feetid stools, with a small intermitting pulse, and a total ceffation of pain, are figns of a mortification already begun, and of approaching death.

REGIMEN.—The regimen in this disease is in general the same as in an inflammation of the stomach. The patient must be kept quiet, avoiding cold, and all violent passions of the mind. His food ought to be very light, and given in small quantities; his drink weak and diluting; as clear whey, barley-water, and fuch

like.

MEDICINE.—Bleeding in this, as well as in the inflammation of the stomach, is of the greatest importance. It should be performed as foon as the fymptoms appear, and must be repeated according to the strength of the patient, and the violence of the difeafe.

A bliftering plafter is here likewise to be applied immediately over the part where the most violent pain is. This not only relieves the pain of the bowels, but even clyfters and purgative medicines, which before had no effect, will operate when the blifter begins to

rife.

Fomentations and laxative clysters are by no means to be omitted. The patient's feet and legs should frequently be bathed in warm water; and cloths dipped in it applied to his belly. Bladders filled with warm water may likewise be applied to the region of the navel, and warm bricks, or bottles filled with warm water, to the

foles of the feet. The clysters may be made of barley-water, or thin gruel with falt, and softened with sweet oil or fresh butter. These may be administered every two or three hours, or oftener, if

the patient continues costive.

If the disease does not yield to clysters and fomentations, recourse must be had to pretty strong purgatives; but as these, by irritating the bowels, often increase their contraction, and by that means frustrate their own intention, it will be necessary to join them with opiates, which, by allaying the pain, and relaxing the spasmodic contractions of the guts, greatly affift the operation of purgatives in this cafe.

What answers the purpose of opening the body very well, is a solution of the bitter purging salts. Two ounces of these may be dissolved in an English pint of warm water, or thin gruel, and a tea-cupful of it given every half hour till it operates. At the fame time fifteen, twenty, or twenty-five drops of laudanum may be given in a glass of pepper-mint or simple cinnamon-water, to appeafe the irritation, and prevent the vomiting, &c.

Acids have often a very happy effect in staying the vomiting, and appealing the other violent fymptoms of this disease. It will therefore be of use to sharpen the patient's drink, with cream of tartar, juice of lemon; or, when these cannot be obtained, with vinegar.

But it often happens that no liquid whatever will stay on the stomach. In this case the patient must take purging pills. I have generally found the following answer very well: Take jalap in powder, and vitriolated tartar, of each half a dram, opium one grain, Castile soap as much as will make the mass fit for pills-These must be taken at one dose, and if they do not operate in a

few hours, the dose may be repeated.

If a stool cannot be procured by any of the above means, it will be necessary to immerse the patient in warm water up to the breast. I have often feen this fucceed when other means had been tried in vain. The patient must continue in the water as long as he can eafily bear it without fainting, and if one immersion has not the desired effect, it may be repeated as foon as the patient's strength and spirits are recruited. It is more safe for him to go frequently into the bath, than to continue too long at a time; and it is often neceffary to repeat it several times before it has the defired effect.

It has fometimes happened, after all other means of procuring a stool had been tried to no purpose, that this was brought about by immerfing the patient's lower extremities in cold water, or making him walk upon a wet pavement, and dashing his legs and thighs with the cold water. This method, when others fail, at least merits a trial. It is indeed attended with some danger; but a doubt-

ful remedy is better than none.

In desperate cases it is common to give quicksilver. This may be given to the quantity of several ounces, or even a pound, but should not exceed that\*. When there is reason to suspect a mortification of the guts, this medicine ought not to be tried. In that case it cannot cure the patient, and will only hasten his death. But when the obstruction is occasioned by any cause that can be removed by force, quicksilver is not only a proper medicine, but the best that can be administered, as it is the fittest body we know for making its way through the intestinal canal.

If the disease proceeds from a rupture, the patient must be laid with his head very low, and the intestines returned by gentle pressure with the hand. If this, with somentations and clysters, should not succeed, recourse must be had to a surgical operation, which

may give the patient relief.

Such as would avoid this excruciating and dangerous difease, must take care never to be too long without a stool. Some who have died of it, have had several pounds of hard dry faces taken out of their guts. They should likewise beware of eating too f.eely of sour or unripe fruits, or drinking stale windy liquors, &c. I have known it brought on by living too much on baked fruits, which are seldom good. It likewise proceeds frequently from cold caught by wet clothes, &c. but especially from wet seet.

#### OF THE COLIC.

The colic has a great refemblance to the two preceding difeases, both in its symptoms and method of cure. It is generally attended with costiveness and acute pain of the bowels; and requires diluting diet, evacuations, fomentations, &c.

Colics are variously denominated according to their causes, as the flatulent, the bilious, the hysteric, the nervous, &c. As each of these requires a particular method of treatment, we shall point out the most general symptoms, and the means to be used for their

relief.

The flatulent, or wind-colic, is generally occasioned by an indiscreet use of unripe fruits, meats of hard digestion, windy vegetables, fermenting liquors, and such like. It may likewise proceed from an obstructed perspiration, or catching cold. Delicate people, whose digestive powers are weak, are most liable to this kind of colic.

\* When quickfilver is given in too large quantities, it defeats its own intention, as it drags down the bottom of the stomach, which prevents its getting over the Pylorus. In this case the patient should be hung up by the heels, in order that the quicksilver may be discharged by his mouth.

The flatulent colic may either affect the stomach or intestines. It is attended with a painful stretching of the affected part. The patient feels a rumbling in his guts, and is generally relieved by a discharge of wind, either upwards or downwards. The pain is seldom confined to any particular part, as the vapor wanders from one division of the bowels to another till it finds a vent.

When the disease proceeds from windy liquor, green fruit, some herbs, or the like, the best medicine on the first appearance of the symptoms is a dram of brandy, gin, or any good spirits. The patient should likewise sit with his seet upon a warm hearth-stone, or apply warm bricks to them; and warm cloths may be applied to

his stomach and bowels.

This is the only colic wherein ardent spirits, spiceries, or any thing of a hot nature may be ventured upon. Nor indeed are they to be used here unless at the very begining, before any symptoms of inflammation appear. We have reason to believe, that a colic occasioned by wind or flatulent food night always be cured by spirits and warm liquors, if they were taken immediately upon perceiving the first uneasiness; but when the pain has continued for a considerable time, and there is reason to fear an inflammation of the bowels is already begun, all hot things are to be avoided as poison, and the patient is to be treated in the same manner as for the inflammation of the intestines.

Several kinds of food as honey, eggs, &c. occasion colies in some particular constitution. I have generally found the best method of cure for these was to drink plentifully of small diluting liquors, as water gruel, small posset, water with toasted bread

soaked in it, &c.

Colics which proceed from excess and indigestion generally cure themselves by occasioning vomiting or purging. These discharges are by no means to be stopped, but promoted by drinking plentifully of warm water, or weak posset. When their violence is over the patient may take a dose of rhubarb, or any other gentle purge, to carry off the dregs of his debauch.

Colics which are occasioned by wet feet, or catching cold, may generally be removed at the beginning, by bathing the feet and legs in warm water, and drinking such warm diluting liquors as will promote the perspiration, as weak wine-whey, or water-gruel.

with a small quantity of spirits in it.

Those flatulent colics, which prevail so much among country people, might generally be prevented were they careful to change their clothes when they get wet. They ought likewise to take a dram, or to drink some warm liquor after eating any kind of green trash. We do not mean to recommend the practice of dram drinking, but in this case ardent spirits prove a real medicine, and in-

deed the best that can be administered. A glass of good peppermint water will have nearly the same effect as a glass of brandy, and

in some cases is rather to be prefered.

The bilious colic is attended with very acute pains about the region of the navel. The patient complains of great thirst, and is generally costive. He vomits a hot, bitter, yellow-coloured bile, which being discharged, seems to afford some relief, but is quickly followed by the same violent pain as before. As the distemper advances, the propensity to vomit sometimes increases so as to become almost continual, and the proper motion of the intestines is so far perverted, that there are all the symptoms of an impending iliac passion.

If the patient be young and strong, and the pulse full and frequent, it will be proper to bleed, after which clysters may be administered. Clear whey or gruel, tharpened with the juice of lemon, or cream of tartar, must be drank freely. Small chickenbroth, with a little manna dissolved in it, or a slight decoction of tamarinds, are likewise very proper, or any other thin, acid open-

ing liquor.

Besides bleeding and plentisul dilution, it will be necessary to fornent the belly with cloths dipped in warm water, and if this should not succeed, the patient must be immersed up to the breast in

warm water.

In the bilious colic the vomiting is often very difficult to restrain. When this happens, the patient may drink a decoction of toasted bread, or an infusion of garden-mint in boiling water. Should these not have the desired effect, the saline draught, with a sew drops of laudanum in it, may be given, and repeated according to the urgency of the symptoms. A small quantity of Venice treacle may be spread in form of a cataplasm, and applied to the pit of the stomach. Clysters, with a proper quantity of Venice treacle or liquid laudanum in them may likewise be frequently administered.

The hysteric colic bears a great resemblance to the bilious. It is attended with acute pains about the region of the stomach, vomitting, &c. What the patient vomits in this is commonly of a greenish colour. There is a great sinking of the spirits, with dejection of mind and difficulty of breathing, which are the characteristic symptoms of this disorder. Sometimes it is accompanied with the jaundice, but this generally goes off of its own accord in a few days.

In this colic all evacuations, as bleeding, purging, vomiting, &c. do hurt. Every thing that weakens the patient, or finks the spirits, is to be avoided. If however the vomiting should prove violent, lukewarm-water, or small posset, may be drank to cleanse

the stomach. Afterwards the patient may take fifteen, twenty or twenty-five drops of liquid laudanum in a glass of cinnamon water. This may be repeated every ten or twelve hours till the symptoms abate.

The patient may likewise take sour or sive of the sectid pills every six hours, and drink a cup of penny-royal tea after them. If asafectida should prove disagreeable, which is sometimes the case, a tea-spoonful of the tincture of castor in a cup of penny-royal tea, or thirty or forty drops of the balsam of Peru dropped upon a bit of loaf-sugar, may be taken in its stead. The anti-hysteric plaster may be also used, which has often a good effect\*.

The nervous colic prevails among miners, fmelters of lead, plumbers, the manufacturers of white lead, &c. It is very common in the cider countries of England, and is supposed to be occasioned by the leaden vessels used in preparing that liquor. It is likewise a frequent disease in the West-Indies, where it is termed the dry

belly-ache.

No disease of the bowels is attended with more excruciating pain than this. Nor is it soon at an end. I have known it continue eight or ten days with very little intermission, the body all the while continuing bound in spite of medicine, yet at length yield, and the patient recovert. It generally however leaves the patient weak,

and often ends in a palfey.

The general treatment of this disease is so nearly the same with that of the iliac passion, or inflammation of the guts, that we shall not insist upon it. The body is to be opened by mild purgatives given in small doses, and frequently repeated, and their operation must be assisted by soft oily clysters, somentations, &c. The caster oil is reckoned peculiarly proper in this disease. It may both be mixed with the clysters, and given by the mouths.

The Barbadoes tar is faid to be an efficacious medicine in this complaint. It may be taken to the quantity of two drams three times a-day, or oftener, if the stomach will bear it. This tar, mixed with an equal quantity of strong rum, is likewise proper for rubbing the spine, in case any tingling, or other symptoms of a palsey, are felt. When the tar cannot be obtained, the back may

\* See Appendix, Anti-hysteric Plaster.

† As the smoke of tobacco thrown into the bowels will often procure a stool when all other means have failed, an aparatus for this purpose ought to be kept by every surgeon. It may be purchased at a small expence, and will be of service in several other cases, as the recovery of drowned persons, &c.

§ The dose is from one table-spoonful to two or three if necessary to

open the body.

be rubbed with strong spirits, or a little oil of nutmegs or of rosemary.

If the patient remains weak and languid after this disease, he must take exercise on horseback, and use an infusion of the Peruvian bark in wine. When the disease ends in a palfy, the Bath wa-

ters are found to be extremely proper.

To avoid this kind of choic, people must shun all sour fruits, acids, and austere liquous, &c. Those who work in lead ought never to go to their business fasting, and their food should be oily or fat. They may take a glass of salid oil, with a little brandy or rum every morning, but should never take spirits alone. Liquid aliment is best for them, as fat broths, &c. but low living is bad. They should frequently go a little out of the tainted air; and should never suffer themselves to be costive. In the West Indies, and on the coast of Guinea, it has been found of great use, for preventing this colic, to wear a piece of stannel round the waist, and to

drink an intufion of ginger by way of tea.

Sundry other kinds of this disease might be mentioned, but too many distinctions would tend only to perplex the reader. Those already mentioned are the most material, and should indeed be attended to, as their treatment is very different. But even persons who are not in a condition to distinguish very accurately in these matters, may nevertheless be of great service to patients in cholics of every kind, by only observing the following general rules, viz. To bathe the feet and legs in warm water; to apply bladders filled with warm water, or cloths wrung out of it, to the stomach and bowels; to make the patient drink freely of diluting mucilaginous liquors; and to give him an emollient clyster every two or three hours. Should these not succeed, the patient ought to be immersed in warm water.

#### INFLAMMATION OF THE KIDNEYS.

CAUSES.—This diseases may proceed from any of those causes which produce an inflammatory sever. It may likewise be occaoned by wounds or bruises of the kidneys; small stones or gravel lodged within them; by strong diuretic medicines; as spirits of turpentine, tiacture of cantherides, &c. Violent motion, as hard riding or walking, esecially in hot weather, or whatever drives the blood too forcibly into the kidneys, may occasion this malady. It may likewise proceed from lying too soft, too much on the back, involuntary contractions, or spasms, in the urinary vessels, &c.

SYMPTOMS.—There is a sharp pain about the region of the kidneys, with some degree of sever, and a stupor or dull pain in the thigh of the affected side. The nrine is at first clear and atterwards of a reddish colour; but in the worst kind of the disease, it general

rally continues pale, is passed with difficulty, and commonly in small quantities at a time. The patient feels great uneasinch when he endeavour to walk or fit upright. He lies with most ease on the affected side, and has generally a nausea or vomiting, resembling that which happens in the colic.

This difease however may be distinguished from the colic by the

with which it is constantly attended.

REGIMEN.—Every thing of a heating or stimulating nature is to be avoided. The food must be thin and light; as panado, small broths, with mild vegetables, and the like. Emollient and thin liquors must be plentifully drank; as clear whey, or balm-tea sweetened with honey, decoctions of marsh-mallow roots, with barley and liquorice, &c. The patient, notwithstanding the vomiting, must constantly keep sipping small quantities of these or other diluting liquors. Nothing so safely and certainly abates the influence, and expels the obstructing cause, as copious dilution. The patient must be kept easy, quiet, and free from cold, as long as any symptoms of instammation appear.

MEDICINE.—Bleeding is generally necessary, especially at the beginning. Ten or twelve ounces may be let from the arm or spot with a lancet, and if the pain and inflammation continue, the operation may be repeated in twenty four hours, especially if the prient be of a full habit. Leeches may likewise be applied to the haemorrhoidal veins, as a discharge from these will greatly relieve

the patient.

Cloths dipped in warm water, or bladders filled with it, must be applied as near as possible to the part affected, and renewed as they grow cool. If the bladders be filled with a decoction of mallows and camomile flowers, to which a little faffron is added, and mixed with about a third part of new milk, it will be still more beneficial.

Emollient clysters ought frequently to be administered; and if these do not open the body, a little falt and honey, or manna, may

be added to them.

The same course is to be followed where gravel or stone is lodged in the kidney, but when the gravel or stone is separated from the kidney, and lodges in the Ureter\*, it will be proper, besides the somentations, to rub the small of the back with sweet oil, and to give gentle diuretics; as juniper water sweetened with the syrup of marsh-mallows; a tea-spoonful of the sweet spirits of nitre, with a few drops of landanum, may now and then be put in a cup

<sup>\*</sup> The Ureters are two long and small canals, one on each side which carry the urine from the bason of the kidneys to the bladd r.-They are sometimes of structed by small pieces of gravel failing from the kidneys, and beging in them.

of the patient's drink. He ought likewise to take exercise on horse-

back, or in a carriage, if he be able to bear it.

When the dife is promated beyond the feventh or eighth day, and the patient complains of a stupor and heaviness of the part, has frequent returns of chilness, shivering, &c. there is reason to sufpect that matter is forming in the kidney, and that an abscess will ensue.

When matter in the urine shews that an ulcer is already formed in the kidney, the patient must be careful to abstain from all acrid, sour, and salted provisions; and to live chicky upon mild mucilaginous herbs and straits, together with the broth of young animals, made with barley, and common pot-herbs, &c. His drink may be whey and butter milk that is not sour. The latter is by some reckoned a specific remedy in ulcers of the kidneys. To auswer this character, however, it must be drank for a confiderable time. Chalvebate waters have likewise been sound beneficial in this disease. This medicine is easily obtained, as it is found in every part of G cat B-it in. It must likewise be used for a confiderable time, in order to produce any salutary effects.

Those who are liable to frequent returns of inflammation, or obtructions of the kidneys, must abstract from wines, especially such as abound with tartar; and their food ought to be light, and of easy digestion. They should use moderate exercise, and should

not lie too hot, nor too much on their back.

#### INFLAMMATION OF THE BLADDER.

The influmination of the bladder, proceeds, in a great measure, from the same causes as that of the kidneys. I is known by an acuse pain towards the bottom of the belly, and difficulty of passing turine, with some degree of fever, a constant, inclination to go to

fool, and a perpetual inclination to make water.

This difease must be treated on the same principles as the one immediately preceding. The diet must be light and thin, and the drink of a cooling nature. Bleeding, is very proper at the beginning, and in robust constitutions it will of en be very necessary to repeat it. The loser part of the belly should be sometted with warm water, or a decoction of mild vegetables; and emolient elysters ought frequently to be administered, &c.

The patient should abiling from every thing that is of a hot acrid and stimulating quality, and should live entirely upon small broths,

grnels, or mild vegetables.

A stoppage of urine may proceed from other causes besides an infl menation of the bladder; as a swelling of the homorrhoidal veins; hard faces lodged in the rectum; a stone in the bladder; excrescences in the urinary passages, a passy of the bladder, hysteric

affections, &c. Each of these requires a particular treatment, which does not fall under our present consideration. We shall only observe, that in all of them mild and gentle applications are the fasest, as strong diuretic medicines, or things of an irritating nature, generally encrease the danger. I have known some persons kill themselves by introducing probes into the urinary passages, to remove, as they thought, somewhat that obstructed the discharge of urine, and others bring on a violent inflammation of the bladder, by using strong diuretics, as oil of turpentine, &c. for that purpose.

#### INFLAMMATION OF THE LIVER.

The liver is less subject to inflammation than most of the other viscera, as in it the circulation is flower; but when an inflammation does happen, it is with difficulty removed, and often ends in a sup-

puration or scirrhus.

CAUSES.—Besides the common causes of inflammation, we may here recken the following, viz. excessive fatness, a scirrhus of the liver itself, violent shocks from strong vomits when the liver was before unsound, an adust or atrabilarian state of the blood, any thing that suddenly cools the liver after it has been greatly heated, stones obstructing the course of the bile, drinking strong wines and spiritous liquors, using hot spicy aliment, obstinate hypochondriacal affections, &c.

SYMPTOMS.—This discase is known by a painful tension of the right side under the false sibs attended with some degree of sever, a sense of weight, or sulness of the part, difficulty sof breathing, leathing of food, great thirst, with a pale or yellowish colour of the

Ikin and eyes.

The fymptoms here are various, according to the degree of inflammation, and likewise according to the particular part of the liver where the inflammation happens. Sometimes the pain is so inconfiderable, that an inflammation is not so much as suspected; but when it happens in the upper or convex part of the liver, the pain is more acute, the pulse quicker, and the patient is often troubled with a dry cough, a hiccup, a pain extending to the shoulder, with difficulty of lying on the left side, &c.

This difease may be distinguished from the pleurisy by the pain being less violent, seated under the salse ribs, the pulse not so hard and by the difficulty of lying on the less side. It may be distinguished from the hysteric and hypochondrize disorders by the degree of

to be with which it is always attended.

This disease, if properly treated, is seldom mortal. A constant hiecopping, violent sever, and excessive thirst, are bad supported. If it ends in a supportation, and the mater cannot be discharged entitiarily, the danger is great. When the scirrhes of the liver

enfues, the patient, if he observes a proper regimen, may nevertheless live a number of years tolerably easy; but if he indulge in animal food and strong liquors, or take medicine of an acrid or irritating nature, the scirrhus will be converted into a cancer, which must infallibly prove satal.

REGIMEN.—The fame regimen is to be observed in this as in other inflammatory disorders. All hot things are to be carefully avoided, and cool diluting liquors, as whey, barley-water, &c. drank freely. The food must be light and thin, and the body, as

well as the mind, kept easy and quiet.

MEDICINE.—Bleeding is proper at the beginning of this difease, and it will often be necessary, even though the pulse should not feel hard, to repeat it. All violent purgatives are to be avoided; the body however must be kept gently open. A decoction oftamarinds, with a little honey or manna, will answer this purpose very well. The side affected must be somented in the manner directed in the foregoing diseases. Mild laxative clysters should be frequently administered; and, if the pain should notwithstanding continue violent, a blistering plaster may be applied over the part affected; or rather a plaster made of gum ammoniac and vinegar of squills.

Medicines which promote the secretion of prine have a very good effect here. For this purpose half a dram of purished nitre, or a tea-spoonful of the sweet spirits of nitre, may be taken in a cup of

the patient's drink three or four times a-day.

When there is an inclination to fweat, it ought to be promoted, but not by warm sudorifics. The only thing to be used for that purpose is plenty of diluting liquors drank about the warmth of the human blood. Indeed the patient in this case, as well as in all other topical inflammations, ought to drink nothing that is colder than the blood.

If the stools should be loose, and even streaked with blood, no means must be used to stop them, unless they be so frequent as to weaken the patient. Loose stools often prove critical, and carry off

the disease.

If an abscess or imposshume is formed in the liver, all methods should be tried to make it break and discharge itself outwardly, as fomentations, the application of poultices, ripeoing cataplasms, &c. Sometimes indeed the matter of an abscess comes away in the urine, and sometimes it is discharged by stool, but there are efforts of Nature which no means can promote. When the abscess bursh into the cavity of the absorben at large, death must ensue; nor wild the event be more favourable when the abscess is opened by an incline, unless in cases where the liver adheres to the periodecum, so as to form a bag for the matter, and prevent it from railing

into the cavity of the abdomen; in which case opening the abscess
by a sufficiently large incition will probably save the patient's

life\*.

If the diforder, in spite of all endeavoors to the contrary, should end in a scirnbus, the parient must be careful to regulate his diet, are in such a manner as not to aggravate the distase. He must not indulge in flesh, sish, strong liquors, or any highly seasoned or salted provision; but should, for the nest part, live or tild vegetables, as fruits and roots, taking gentle exercise, and drinking whey, parley-water, or butter milk. It he takes any thing stronger, it should be fine mild ale, which is less heating than wines or spirits.

We shall take no notice of inflammation of the other viscera. They must in general be treated upon the same principles as those already mentioned. The chief rule with respect to all of them, is to let blood, to avoid every thing that is strong, or of a heating nature, to apply warm somentations to the part affected, and to capse the patient to drink a sufficient quantity of warm diluting

liquors.

#### C H A P. XXXI.

# OF THE CHOLERA MORPUS, AND OTHER EXCESSIVE DISCHARGES FROM THE STOMACH AND BOWLLS.

ed with rriprs, fickness, and a constant defire to go to stock. It comes on suddenly, and is most common in autumn. There is burdly any esseate that kills more quickly than this, when proper

membrare not used in due time for removing it.

CAUSES.—It is occasioned by a redundency and putrid acrimony of the bile; cold, food that easily turns rancial or four on the stometry as but er, bucon, sweet means, encumbers, nelar, charges, and other cold fruits. It is sometimes the effect of the gracial purges or voorits, or of possessors substances taken into the tomach. It may be kewise proceed from violent passions or affections of the mind; as fear, anger, &cc.

SYMPTOMS.—It is generally preceded by a cordialgia, or \* I know a gentleman who has had feveral absorption of the liver opened,

and is not a strong and headly man, though it re eighty years of age.

The voices twice brought to the gates of aceth by this diference and

in the cost twas scenfined by eating rancial bacan.

heart-burn, sour belchings, and flutulencies, with pain of the stormach and intestines. To these succeed excessive voniting, and purying of green, yellow, or blackish colored bile, with a distenstion of the stormach, and violent griping pains. There is likewise
a great thirst, with a very quick uneaqual pulse, and often a fixed
acute pain about the region of the navel. As the disease advances,
the pulse often sinks is low as to become quite imperceptible, the
extremities grow cold, or cramped, and are often covered with a
clammy sweat, the prine is obstructed, and there is a palpitation of
the heart. Violent hiccuping, fainting, and convulsions are the
signs of approaching death.

MEDICINE.—At the beginning of this disease the efforts of Nature to expel the offending cause should be assisted, by promoting the purging and vomiting. For this purpose the patient must drink freely of diluting liquors; as whey, butter milk, warm water, thin water-gruel, small-posset, or what is perhaps preserable to any of them, very weak chicken broth. This should not only be drauk plentifully to promote the vomiting, but a clyster of it given

every hour in order to promote the purging.

After these evacuations have been continued for some time, a decoction of toasted out-bread may be drank to stop the vomiting. The bread should be toasted till it is of a blown colour, and afterwards beiled in spring water. If out bread cannot be had, wheat-bread, or out-meal well toasted, may be used in its steed. If this does not put a stop to the vomiting, two table-spoonfuls of the faline julep, with ten drops of laudanum, may be taken every hour till it ceases.

The vomiting and purging however ought never to be flopped too foon. As long as these discharges do not weaken the patient, they are salutary, and may be allowed to go on, or rather ought to be promoted. But when the patient is weakened by the evacuation, which may be known from the sinking of the pulse, &c. recourse must immediately be had to opiates, as recommended above; to which may be added strong wines, with spirituous cinnaraonwaters, and other generous cordials.—Warm negus, or strong wine-whey, will likewise be recessary to support the patient's spirits, and promote the perspiration. His legs should be bathed in warm water, and afterwards tobbed with some cloths, or wrapped in warm blankets, and warm bricks applied to the soles of his seet. Flannels wrang out of warm spirituous somentations should like-wise be applied to the region of the stomach.

When the violence of the disease is over, to prevent a relapse, it will be necessary for some time to continue the use of small doses of laudanum. Ten or twelve drops may be taken in a glass of wine, at least twice a day, for eight or ten days. The patient's food

ought to be nourishing, but taken in small quantities, and he should use moderate exercise. As the stomach and intestines are generally much weakened, an insusion of the bank, or other bitters, in small wine, sharpened with the elixir of vitriol, may be drank for some time.

Though physicians are seldom called in due time in this disease, they ought not to despair of relieving the patient even in the most desperate circumstances. Of this I lately saw a very striking proof in an old man and his son, who had been both seized with it about the middle of the night. I did not see them till next morning, when they had much more the appearance of dead than of living men. No pulse could be felt; the extremities were cold and rigid; the countenance was gastly, and the strength almost quite exhausted. Yet from this deplorable condition they were both recovered by the use of opiates and cordial medicines.

OF A DIARRHŒA, OR LOOSENESS.

A loofeness, in many cases is not to be considered as a disease, but rather as a salutary evacuation. It ought therefore never to be stopped, unless when it continues too long, or evidently weakens the patient. As this however sometimes happens, we shall point out the most common causes of a looseness, with the proper method of treatment.

When a looseness is occasioned by catching cold, or an obstructed perspiration, the patient ought to keep warm, to drink freely of weak diluting liquors, to bathe his feet and legs frequently in lukewarm water, to wear flannel next his skin, and to take every other

method to restore the perspiration.

In a loofeners which proceeds from excess or repletion, a vomit is the proper medicine. Vomits not only cleanle the stomach, but promote all the secretions, which renders them of great importance in carrying off a debauch. Half a dram of ipecacuanha in powder will answer this purpose very well. A day or two after the vomit, the same quantity of rheubarb may be taken, and repeated two or three times, if the loofeners continues. The patient ought to live upon light vegetable food of easy digestion, and to drink whey, thin gruel, or bester-water.

A loofenes, occasioned by the obstruction of any customary evacuation, generally requires bleeding. If that does not succeed, other evacuations may be substituted in the room of those which are obstructed. At the same time, every method is to be taken to restore the usual discharges, as not only the cure of the discase, but

the patient's life may depend on this.

A per plical loofenels ought never to be flopped. It is always an effort of Nature to carry off fome offending matter, which, if

retained in the body, might have fatal effects. Children are very liable to this kind of loofeness, especially while teething. It is however so far from being hurtful to them, that such children generally get their teeth with least trouble. If these loose should at any time prove four or griping, a tea-spoonful of magnesia albawith four or five grains of rheubarb, may be given to the child in a little panado, or any other food. This, if repeated three or four times, will generally correct the acidity, and carry off the griping stools.

A diarrhoza, or loofeness, which proceeds from violent passionis or affections of the mind, must be treated with the greatest caution. Vemits in this case are highly improper. Nor are purges safe, unless they be very mild, and given in small quantities. Opiates, and other antisposmodic medicines, are most proper. Ten or twelve drops of liquid laudanum may be taken in a cup of valerian or penny-royal tea every eight or ten hours, till the symptoms abate. Ease, cheerfulness, and tranquility of mind, are here of the greatest importance.

When a loofeness proceeds from acrid or poisonous substances taken into the stomach, the patient must drink large quantities of diluting liquors, with oil or fat broths, to promote vomiting and purging. Afterwards, if there be reason to suspect that the bowels are inflamed, bleeding will be necessary. Small doses of laudanum

may likewise be taken to remove their irritation.

When the gout, repelled from the extremities, occasions a loofeness, it ought to be premoted by gentle doses of rheubarb; or other mild purgatives. The gouty matter is likewise to be solicited towards the extremities by warm fomentations, cataplasms, &c. The perspiration ought at the same time to be promoted by warm diluting liquors; as wine-whey, with spirits of hartshorn, or a few drops of liquid laudanum, in it.

When a loofeness proceeds from worms, which may be known from the fliminess of the stools, mixed with pieces of decayed worms, &cc. medicines must be given to kill and carry off these vermin, as the powder of tin with purges of rheubarb, and calemel. Afterwards lime-water, either alone, or with a fmall quantity of rheubarb infused, will be proper to strengthen the bowels, and pre-

vent the new generation of worms,

A loofeness is often occasioned by drinking hard water. When this is the case, the disease generally proves epidemical When there is reason to believe that this or any other disease proceeds from the use of unwholesome water, it ought immediately to be changed, or, if that cannot be done, it may be corrected by mixing with it quick-lime, chalk, er the like.

In people whose stomachs are weak, violent exercise immediately after eating will occasion a looseness. Though the cure of this is obvious, yet it will be proper, besides avoiding violent exercise, so use such medicines as tend to brace and strengthen the stomach, as insustances of the bark, with other bitter and astringent ingredients, in white wine. Such persons ought likewise to take frequently a glass or two of old red port, or good claret.

From whatever cause a looseness proceeds, when it is sound necessary to check it, the diet ought to consist of rice boiled with milk, and flavoured with cinnamon; rice-jelly, sago with red port; and the lighter forts of flesh-meat roasted. The drink may be thin water-gruel, rice-water, or weak broth made from lean veal, or with a sheep's head, as being more gelatinous than mutton, beef.

or chicken-broth.

Persons who, from a seculiar weakness, or too great an irritability of the bowels, are liable to frequent returns of this disease, should live temperately, avoiding crude summer-fruits, all unwholesome food, and meats of hard digestion. They ought likewise to beware of cold, moisture, or whatever may obstruct the perspiration, and should wear slannel next their skin. All violent pattions, as fear, anger, &c. are likewise carefully to be guarded against.

#### OF VOMITING.

Vomiting may proceed from various causes; as excels in eating and drinking; southers of the stomach; the acrimony of the aliments; a translation of the morbisic matter of ulcers, of the gout, the erysipelas, or other diseases, to the stomach. It may likewise proceed from a looseness having been too suddenly stopped; from the stoppage of any customary evacuation, as the bleeding piles, the menses, &c. from a weakness of the stomach, the cholic, the iliac possion, a rupture, a sit of the gravel, worms; or from any kind of poison taken into the stomach. It is an usual symptom of injuries done to the brain; as contusions, compressions, &c. It is likewise a symptom of wounds or instammations of the diaphragm, intestines, spleen, liver, kidneys, &c.

Vomiting may be occasioned by unusual motions; as sailing, being drawn backwards in a carriage, &c. It may likewise be excited by violent passions, or by the idea of nauseus or disagreeable objects, especially of such things as have formerly produced vomiting. Sometimes it proceeds from a regurgitation of the bile into the stomach; in this case, what the patient vomits is generally of a yellow or greenish colour, and has a bitter taste. Persons who are subject to nervous affections are often suddenly scized with violent sits of vomiting. Lastly, vomiting is a common symptom of pregnancy.

In this case it generally comes on about two weeks after the stoppage of the menses, and continues during the first three or sour months.

When vomiting proceeds from a foul stomach or indigestion, it is not to be considered as a disease, but as the cure of a disease. It ought therefore to be promoted by drinking lukewarm water, or thin growl. If this does not put a stop to the vomiting, a dose of ipecacuanha may be taken, and worked off with weak cammomiletes.

When the retrocession of the gout, or the obstraction of customary evacuations, occasion vomiting, all means must be used to restore these discharges: or, if that cannot be effected, their place must be supplied by others, as bleeding, purging, bathing the extremities in warm water, opening issues, setone, perpetual blisters, &c.

When vomiting is the effect of pregnancy, it may generally be mitigated by bleeding, and keeping the body gently open. The bleeding however ought to be in small quantities at a time, and the purgatives should be of the mildest kind; as figs, stewed prunes, manna, or senna. Pregnant women are most apt to vomit in the morning, immediately after getting out of bed, which is owing partly to the change of posture, but more to the emptiness of the itomach. It may generally be prevented by taking a dish of coffee, tea, or some light breakfast in bed. - Pregnant women who are afflicted with vomiting ought to be kept easy both in body and mind. They should neither allow their stomachs to be quite empty, nor should they eat much at once. Cold water is a very proper drink in this case: if the stomach be weak, a little brandy may be added to it. If the spirits are low, and the person apt to faint, a spoonful of cinnamon-water, with a little marmalade of quinces or oranges, may be taken.

If vomiting proceeds from weakness of the stomach, bitters will be of service. Peruvian bark insused in wine or brandy, with as much rheubarb as will keep the body gently open, is an excellent medicine in this case. The elixir of vitriol is also a good medicine. It may be taken in the dose of sisteen or twenty drops, twice or thrice a day, in a glass of wine or water. Habitual vomitings are sometimes alleviated by making oysters the principal part of diet.

A vomiting, which proceeds from acidities in the stomach, is relieved by alkaline purges. The best medicine of this kind is the magnesia alba, a tea-spoonful of which may be taken in a dish of tea, or a little milk, three or four times a-day, or oftener if necessary, to keep the body open.

When vomiting proceeds from violent passions, or assections of the mind, all evacuants must be carefully avoided, especially vomits. These are exceedingly dangerous. The patient in this case ought.

to be kept perfectly eafy and quiet, to have the mind foothed, and to take fome gentle cordial, as negus, or a little brandy and water, to which a few drops of laudanum may occasionally be added.

When vomiting proceeds from spasmodic affections of the sto-mach, musk, castor, and other antispasmodic medicines, are of use. Warm and aromatic plasters have likewise a good effect. The sto-mach-plasters of the London or Edinburgh dispensatory may be applied to the pit of the stomach, or a plaster of theriaca, which will answer rather better. Aromatic medicines may likewise be taken inwardly, as cinnamon or mint-tea, wine with spiceries boiled in it, &c. The region of the stomach may be rubbed with ather, or, if that cannot be had, with strong brandy, or other spirits. The belly should be somented with warm water, or the patient immersed up to the breast in a warm bath.

I have always found the faline draughts taken in the act of effervescence, of singular use in stopping a vomiting, from whatever cause it proceeded. These may be repeated by dissolving a drain of the salt of taitar in an ounce and half of fresh lemon juice, and adding to it an ounce of pepper-mint-water, the same quantity of simple cinnamon-water, and a little white sugar. This draught must be swallowed before the effervescence is quite over, and may be repeated every two hours, or oftener, if the vomiting be violent. A violent vomiting has sometimes been stopped by supping on the

region of the stomach after all other means have failed.

As the least motion will often bring on the vomiting again, even atter it has been stopped, the patient must avoid all manner of action. The diet must be so regulated as to sit easy upon the stomach and nothing should be taken that is hard of digestion. We do not however mean that the patient should live entirely upon slops. Solid food, in this case, often sits easier on the stomach than liquids.

### CHAP. XXXII.

## OF THE DIABETES, AND OTHER DISORDERS OF THE KIDNEYS AND BLADDER.

HE diabetes is a frequent and excessive discharge of urine. It is seldom to be met with among young people; but often attacks persons in the decline of life, especially these who follow the more violent employments, or have been hard drinkers, in their youth.

CAUSES —A diabetes is often the confequence of acute diseases, as fevers, fluxes, &c. where the patient has suffered by excessive evacuations; it may also be occasioned by great suigue, as riding

long journies upon a hard trotting horse, carrying heavy burdens, running, &c. It may be brought on by hard drinking, or the use of strong stimulating diurctic medicines, as tinctures of cantharides, spirits of turpentine, and such like. It is often the essect of drinking too great quantities of mineral waters. Many imagine that these will do them no service unless they be drank in great quantities, by which mistake it often happens that they occasion werse diseases than those they were intended to cure. In a word, this disease may either proceed from too great a laxity of the organs which secrete the urine, from something that stimulates the kidneys too much, or from a thin dissolved state of the blood, which makes too great a quantity of it run off by the urinary passages.

SYMPTOMS.—In a diabetes, the urine generally exceeds in quantity ail the liquid food which the patient takes. It is thin and pale, of a fweetish taste, and an agreeable smell. The patient has a continual thirst, with some degree of sever; his mouth dry, and he spits frequently a frothy spittle. The strength fails, the appetite decays, and the slesh wastes away till the patient is reduced to shin and bone. There is a heat of the bowels; and frequently

the loins, testicles, and feet are swelled.

This difference may generally be cured at the beginning; but after it has continued long, the cure becomes very difficult. In drunkards, and very old people, a perfect cure is not to be expected.

REGIMEN.—Every thing that stimulates the urinary passages, or tends to relax the habit, must be avoided. For this reason the patient should live chiefly on solid food. His thirst may be quenched with acids; as forrel, juice of lemon, or vinegar. The mucilaginous vegetables, as tice, sago, and salop, with milk, are the most proper road. Of animal substances, shell-fish are to be prefered; as others, crabe, &c.

The drink may be Bristol water. When that cannot be obtained, lime water, in which a due proportion of oak-bark has been macerated, may be used. The white decoction\*, with ising-glass

dissolved in it, is likewise a proper drink.

The patient ought daily to take exercise, but it should be so gentle as not to satigue him. He should lie upon a hard bed or materials. Nothing hurts the kidneys more than lying too soft. A warm dry air, the use of the slight brush, and every thing that promotes perspiration, is of service. For this reason the patient ought to wear slannel next his skin. A large strengthening plaster may be applied to the back; or what will answer better, a great part of the back wary be wrapt in plaster.

MEDICINE.—Gentle purges, if the patient be not too much weakened by the disease, have a good effect. They may confid of

<sup>\*</sup> See Appendix, White decoction.

rhubarb, with cardinum feed, or any other spiceries, insused in wine, and may be taken in such quantities as to keep the body gently open.

The patient must have recourse to altringents and corroborants. Half a dram of powder made of equal parts of alum and the inspissated juice commonly called *Terra Japonica*, may be taken four times a-day, or oftener, if the stomach will bear it. The alum must first be melted in a crucible; afterwards they may both be pounded together. Along with every dose of this powder the patient may take a tea-cupful of the tinclure of rosest.

If the patient's stomach cannot bear the alum in substance, whey may be made of it, and taken in the dose of a tea-cupful three or four times a-day. The alum-whey is prepared by boiling two English quarts of milk over a slow fire, with three drams of alum,

till the curd separates.

Opiates are of service in this disease, even though the patient rests well. They take off spalm and irritation, and at the same time lessen the force of the circulation. Ten or twelve drops of liquid landanum may be taken in a cup of the patient's drink three or four

times a-day.

The best corroborants which we know, are the Peruvian bask and wine. A dram of bask may be taken in a glass of red port or claret three times a-day. The medicine will be both more efficacious and less disagreeable, if fiseen or twenty drops of the acid elixir of vitrol be added to each dose. Such as cannot take the bask in substance may use the decoction, mixed with an equal

quantity of red wine, and sharpened as above.

There is a difease incident to laboring people in the decline of life, called an INCONFINENCY of Urine. But this is very differ nt from a diabetes, as the water passes off involuntarily by drops, and does not exceed the usual quantity. This disease is rather troublesome than dangerous. It is owing to a relaxation of the sphincler of the bladder, and is often the effect of a palfy. Sometimes it proceeds from hurts, or injuries occasioned by blows, bruises, preternatural labors, &c. Sometimes it is the effect of a sever. It may likewise be occasioned by a long use of strong diuretics, or of stimulating medicines injected into the bladder.

This difease may be mitigated by the use of astringent and corroborating medicines, such as have been mentioned above; but we do

not remember ever to have seen it cured.

In an incontinency of urine, from whatever cause, a piece of sponge ought to be worn, or a bladder applied in such a manner as to prevent the urine from galling and excertaining the parts.

† See Appendix, Tincure of Roles.
§ A bottle made of the India rubber, and properly applied, answers this purpose the best.

#### OF A SUPPRESSION OF URINE.

It has already been observed, that a suppression of urine may proceed from various causes; as an inflam mation of the kidneys, or bladder, small stones or gravel lodging in the urinary passages, hard feecs lying in the rectum, pregnancy, a spassm or contraction of the neck of the bladder, clotted blood in the bladder itself, a swelling of the hamorrhoidal veins, &c.

Some of these cases require the catheter, both to remove the obfiructing matter, and to draw off the urine; but as this instrument can only be managed with safety by persons skilled in surgery, we shall say nothing surther of its use. A bougee may be used by any cautious hand, and will often succeed better than the

catheter.

We would chiefly recommend, in all obstructions of urine, formentations and evacuants. Bleeding, as far as the patient's strength will permit, is necessary, especially where there are symptoms of topical inflammation. Bleeding in this case not only abates the sever, by lessening the force of the circulation, but, by relaxing the solids, it takes off the spasm or stricture upon the vessels which occasioned the obstruction.

After bleeding, fomentations must be used. These may either consist of warm water alone, or of decoctions of mild vegetables; as mallows, camomile flowers, &c. Cloths dipped in these may either be applied to the part affected, or a large bladder filled with the decoction may be kept continually upon it. Some put the herbs themselves into a stannel bag, and apply them to the part, which is far from being a bad method. These continue longer warm than cloths dipped in the decoction, and at the same time keep the part equally moist.

In all obstructions of urine, the body ought to be kept open. This is not however to be attempted by strong purgatives, but by emollient clysters, or gentle infusions of senna and manna. Clysters in this case not only open the body, but answer the purpose of an internal somentation, and greatly assist in removing the spasms of

the bladder and parts adjacent.

The food must be light, and taken in small quantities. The drivk may be weak broth, or decoctions and insuspenses of mucilaginous vegetables, as marsh-mallow roots, lime-tree buds, &c. A tea-spoonful of the sweet spirits of nitre, or a dram of Cassile soap, anay be frequently put into the patient's drink; and, if there be no inflammation, he may drink small gin-punch.

Persons subject to a suppression of urine ought to live very temperate. Their diet should be light, and their siquor diluting. They should avoid all acids and austerere wines, should take sufficient ex-

ercife, lie hard, and avoid study and sedentary occupations.

#### OF THE CRAVEL AND STONE.

When finall flores are lodged in the kidneys, or discharged along with the urine, the patient is faid to be afflicted with the gravel. If one of these stones happens to make a lodgment in the bladder for some time, it accumulates fresh matter, and at length becomes too large to pass off with the urine. In this case the pationt is said to have the stone.

CAUSES.—The stone and gravel may be occasioned by high living; the use of strong astringent wines; a sedentary life; lying too hot, soft, or too much on the back; the constant use of water impregnated with earthy or stony particles; aliments of an astringent or windy nature, &c. It may likewise proceed from an hereditary disposition. Persons in the decline of life, and those who have been much affisched with the gout or rheumatism, are most liable to it.

SYMPTOMS.—Small stones or gravel in the kidneys occasion pair in the loins; sickness; vomiting; and sometimes bloody urine. When the stone descends into the ureter, and is too large to pass along with ease, all the above symptoms are increased; the pain extends towards the blattder; the thigh and leg of the affected side are benumbed; the testicles are drawn upwards, and the urine is obstructed.

A stone in the bladder is known from a pain at the time, as well as before and after making water; from the urine coming away by drops, or stopping suddenly when it was running in a full stream; by a violent pain in the neck of the bladder upon motion, especially on horseback, or in a carriage on a rough road; from a white, thick, copious, stinking, mucous sediment in the urine; from an itching in the top of the penis; from bloody urine; from an itching in the top of the penis; from bloody urine; from an inclination to go to stool during the discharge of urine; from the patient's passing his urine more easily when lying, than in an erect posture; from a kind of convulsive motion occasioned by the sharp pain in discharging the last drops of the urine; and lastly, from sounding or learching with the catheter.

REGIMEN.—Persons afflicted with the gravel or stone, should avoid aliments of a windy or heating nature, as salt meats, sour fruits, &c. Their diet ought chiefly to consist of such things as tend to promote the secretion of mine, and to keep the body open. Artichokes, asparagus, spinnage, lettuce, parsley, succery, pursuin, turnips, potatoes, carrots, and radishes, may be safely eaten. Onions, leeks, and cellery, are, in this case, reckoned medicinal. The most proper drinks are whey, butter-misk, milk and water, barley-water; decostions or insusions of the roots of marsh-mallows, paistry, liquorice, or of other mild mucilarinous vegetables, as linseed, limetree buds or leaves, &c. If the patient has been accustomed to generous liquors, he may drink gin and water, not too from:

Gentle exercise is proper; but violent motion is apt to occasion bloody urine. We would therefore advise that it should be taken in moderation. Persons afflicted with the gravel often pass a great number of stones after riding on horseback, or in a carriage; but those who have a stone in the bladder, are seldom able to bear these kinds of exercise. Where there is a hereditary tendency to this disease, a sedentary life ought never to be indulged. Were people careful, upon the first symptoms of gravel, to observe a proper regimen of diet, and to take sufficient exercise, it might often be carried off, or at least prevented from increasing; but if the same course which occasioned the disease is persisted in, it must be aggravated.

MEDICINE. - In what is called a fit of the gravel, which is commonly occasioned by a stone sticking in the ureter, or some part of the urinary passages, the patient must be bled, warm fomentations should likewise be applied to the part affected, emollient clysters administered, and diluting mucilaginous liquors drank, &c. The treatment of this case has been fully pointed out under the articles, Inflammation of the Kidneys and Bladder, to which we refer.

Dr. Whyte advices patients who are subject to frequent fits of gravel in the kidneys, but have no stone in the bladder, to drink every morning, two or three hours before breakfast, an English pint of oyster or cockle-shell lime-water. The Doctor very justly observes, that though this quantity might be too small to have any fensible effect in dissolving a stone in the bladder, yet it may very

probably prevent its growth.

When a stone is formed in the bladder, the Doctor recommends alicant foap, and oyfter or cockle-shell lime-water\*, to be taken in the following manner: The patient must swallow every day, in any form that is least disagreeable, an ounce of the internal part of alicant foap, and drink three or four English pints of oyster or cockleshell lime-water. The foap is to be divided into three doses; the largest to be taken fasting in the morning early; the second at noon; and the third at feven in the evening; drinking above each defe a large draught of the lime-water; the remainder of which he may take any time betwixt dinner and supper, instead of other liquors.

The patient should begin with a fmaller quantity of the limewater and loap, than that mentioned above, as first an English pine of the former, and three drams of the latter, may be taken daily. This quantity, however, he may increase by degrees, and ought to persevere in the use of these medicines, especially if he finds any abatement of his complaints, for several months; nay, if the stone be very large, for years. It may likewife be proper for the patient,

if he be severely pained, not only to begin with the soap and lime-water in small quantities, but to take the second or third lime-water instead of the first. However, after he has been for some sime accustomed to these medicines, he may not only take the first water, but, if he finds he can easily bear it, heighten its dissolving power still more, by pouring it a second time on fresh calcined shells.

The caustic alkali, or soap-lees, is the medicine chiefly in vogue at present for the stone. It is of a very acrid nature, and ought therefore to be given in some gelatinous or mucilaginous siquor, as veal-broth, new milk, linseed-tea, a solution of the gum-arabic, or a decoction of marsh mallow roots. The patient must begin with small doses of the lees, as thirty or forty drops, and increase by

degrees, as far as the stomach can bear it\*.

Though the soap-lees and lime-water are the most powerful medicines which have hitherto been discovered for the stone; yet there are some things of a more simple nature, which in certain cases are found to be beneficial, and therefore deserve a trial. An insussion of the seeds of daucus sylvessiris, or wild carrot, sweetened with honey, has been found to give considerable ease in cases where the stomach could not bear any thing of an acrid nature. A decoction of raw cosse-berries taken morning and evening, to the quantity of eight or ten ounces, with ten drops of sweet spirit of nitre, has likewise been found very efficacious in bringing away large quantities of earthy matter in stakes. Honey is likewise found to be of considerable service, and may be taken in gruel, or in any other form that is more agreeable.

The only other modicine which we shall mention is the uva urs. It has been greatly extolled of late both for the gravel and stone. It seems however to be in all respects inserior to the soap and limewater; but it is less disagreeable, and has frequently to my knowledge, relieved gravelly complaints. It is generally taken in powder from half a dram to a whole dram, two or three times a-day. It may however be taken to the quantity of seven or eight drams a-day,

with great fafety and good effect.

<sup>\*</sup> The caustic alkali may be prepared by mixing two parts of quicklime with one of pot ashes, and suffering them to stand till ibe lixivium be formed, which must be carefully filtrated before it be used. If the solution does not happen readily, a small quantity of water may be added to the mixture.

#### CHAP. XXXIII.

### OF INVOLUNTARY DISCHARGES OF BLOOD.

SPONTANEOUS or involuntary discharges of blood, often happen from various parts of the body. These however are so far from being always dangerous, that they often prove salutary. When such discharges are critical, which is frequently the case in severs, they ought not to be stopped. Nor indeed is it proper at any time to stop them, unless they be so great as to endanger the patient's life. Most people, afraid of the smallest discharge of blood from any part of the body, say immediately to the use of styptic and astringent medicines, by which means an inflammation of the brain, or some other satal disease is occasioned, which, had the discharge been allowed to go on, might have been prevented.

The periodical discharges of blood, from whatever part of the body they proceed, must not be stopped. They are always the efforts of Nature to relieve herself; and satal diseases have often been the consequence of obstructing them. It may indeed be sometimes necessary to check the violence of such discharges; but even this requires the greatest caution. Instances might be given where the stopping of a small periodical flux of the blood, from one of the

fingers, has proved fatal to the health.

In the early period of life, bleeding at the note is very common. Those who are farther advanced in years are more liable to hamoptoe, or discharge of blood from the lungs. After the middle period of life, hamorrhoidal fluxes are most common; and in the decline

of life, discharges of blood from the urinary passages.

Involuntary fluxes of blood may proceed from very different, and often from quite opposite causes. Sometimes they are owing to a particular construction of the body, as a sanguine temperament, a laxity of the vessels, a plethoric habit, &c. At other times they proceed from a determination of the blood towards one particular part, as the head, the hæmorrhoidal veins, &c. They may likewise proceed from an inflammatory disposition of the blood, in which case there is generally some degree of sever; this likewise happens when the stax is occasioned by an obstructed perspiration, or a stricture upon the skin, the bowels, or any particular part of the system.

But a dissolved state of the bood will likewise occasion hæmorrhages. Thus, in putrid severs, the dysentery, the scurvy, the malignant small-pox, &c. there are often very great discharges of blood from different parts of the body. They may likewise be brought on by too liberal a use of medicines which tend to dissolve the blood, as cantharides, the velatile alkaline salts, &c. Food of

an acrid or irritating quality, may likewise occasion hamorrhages; as also strong purges and vomits, or any thing that greatly stimulates the bowels.

Violent passions or agitations of the mind, will likewise have this effect. These often cause bleeding at the nose, and I have known them sometimes occasion a hamorrhage in the brain —Violent essents of the body, by overstraining or hurting the vessels, may have the same effect, especially when the body is long kept in an

unnatural posture, as hanging the head very low, &c.

The cure of a hamorrhage must be adapted to its cause.—When it proceeds from too much blood, or a tendency to inflammation, bleeding, with gentle purges, and other evacuations, will be necessary. It will likewise be proper for the patient in this case to live chiefly upon a vegetable diet, to avoid all strong liquors, and food that is of an acrid, hot, or stimulating quality. The body

should be kept cool, and the mind easy.

When a homorrhage is owing to a putrid or diffolved state of the blood, the patient ought to live chiefly upon acid fruits with milk, and vegetables of a nourishing nature, as sago, salop, &c. His drink may be wine diluted with water, and sharpened with the juice of lemon, vinegar, or spirits of vitriol. The best medicine in this case is the Peruvian bark, which may be taken according to the organicy of the symptoms.

When a flux of blood is the effect of acrid food, or of flrong flimulating medicines, the cure is to be effected by foft and mucilaginous diet. The nation may likewife take frequently about the bulk of a numer of Locatelli's balfam, or the fame quantity of spermaceti.

When an obstructed perspiration, or a stricture upon any part of the system, is the cause of a hæmorrhage, it may be removed by drinking warm diluting liquors, lying a-bed, bathing the extremities in warm water, &c.

#### OF BLEEDING AT THE NOSE.

Bleeding at the nose is commonly preceded by some degree of quickness of the pulse, slushing in the face, pulsation of the temporal arteries, heaviness in the head, dimness of the sight, heat and itching

of the nostrils, &c.

To perform who abound with blood, this discharge is very falutary. It often cures a vertigo, the headache, a phreuzy, and even an epilepsy. In severe, where there is a great determination of blood towards the head, it is of the name t service. It is likewise beneficial in inflammations of the liver and spleen, and often in the grout and rheumarism. In all diseases where bleeding is necessary, then the form the nate is of much more to the than the same quantity let with a linear.

In a discharge of blood from the nose, the great point is to determine whether it ought to be stopped or not. It is a common practice to stop the bleeding, without considering whether it be a disease, or the cure of a disease. This conduct proceeds from sear; but it has often bad, and sometimes satal consequences.

When a discharge of blood from the nose happens in an inflammatory disease, there is always reason to believe that it may prove salutary; and therefore it should be suffered to go on, at least as

long as the patient is not weakened by it.

When it happens to perfons in perfect health, who are full of blood, it ought not to be fuddenly stopped, especially if the symptoms of plethora, mentioned above, have preceded it. In this case

it cannot be stopped without risking the patient's life.

In fine, whenever bleeding at the nose relieves any bad symptom, and does not proceed so far as to endanger the patient's life, it ought not to be stopped. But when it returns frequently, or continues till the pulse becomes low, the extremities begin to grow cold, the lips pale, or the patient complains of being sick or faint, it must

immediately be stopped.

For this purpose the patient should be set nearly upright, with his head reclining a little, and his legs immersed in water about the warmth of new milk. His hands ought likewise to be put in lakewarm water, and his garters may be tied a little tighter than usual. Ligatures may be applied to the arms, about the place where they are usually made for bleeding, and with nearly the same degree of tightness. These must be gradually slackened as the blood begins to stop, and removed entirely as soon as it gives over.

Sometimes dry lint put up the nostrils will stop the bleeding. When this does not succeed, dossils of lint dipped in strong spirits of wine may be put up the rostrils, or if that cannot be had, they may be dipped in brandy. Blue vitriol dissolved in water may likewise be used for this purpose, or a tent dipped in the white of an egg well beat up, may be rolled in a powder made of equal parts of white singar, burnt alum, and white vitriol, and put up the nostril

from whence the blood iffnes.

Internal medicines can hardly be of use here, as they have selds me time to operate. It may not however be amiss to give the parient half an ounce of Glauber's salt, and the same quantity of manna, dissolved in four or sive ounces of barley water. This may be taken at a draught, and repeated, if it does not operate, in a sew hours. Ten or twelve grains of nitre may be taken in a glass of cold water and vinegar every hour, or oftener, if the stemach will beat it. It a stronger medicine be necessary, a tea-cupsoi of the tincture of rose, with twenty or thirty drops of the week spirit of vitrol, may be taken every hour. When these it ugs cannot be

had, the patient may drink water, with a little common falt in it, or equal parts of water and vinegar\*.

If the genitals be immersed for some time in cold water, it will generally stop a bleeding at the nose. I have not known this fail.

Sometimes, when the bleeding is stopped outwardly, it continues inwardly. This is very troublesome, and requires particular attention, as the patient is apt to be suffocated with the blood, especially if he falls affeep, which he is very ready to do after losing a great

quantity of blood.

When the patient is in danger of suffication from the blood getting into his throat, the paffages may be stopped by drawing threads up the nostrils, and bringing them out at the mouth, then fastening pieces of sponge, or small rolls of linnen cloth to their extremities; afterwards drawing them back, and tying them on the outfide with a sufficient degree of tightness.

After the bleeding is stopped, the patient ought to be kept as easy and quiet as possible. He should not pick his nose, nor take away the tents or clotted blood, till they fall off of their own accord, and

should not lie with his head low.

Those who are affected with frequent bleeding at the nose, ought to bathe their feet often in warm water, and to keep them warm and dry. They ought to wear nothing tight about their necks, to keep their body as much in an creet posture as possible, and never to view any object obliquely. If they have too much blood, a vegetable diet, with now and then a cooling purge, is the fafest way to le.Ten it.

Dut viven the disease proceeds from a thin dissolved state of the blood, the diet faould be rich and nourishing: as frong broths and fellies, sago-gruel with wine and sugar, &c. Infusions of the Peruvian bark in wine ought likewise to be taken and persisted in foz

a confiderable time.

#### OF THE BLEEDING AND BLIND PILES.

A discharge of blood from the hæmorrhoidal vessels is called the eleding piles. When the veffels only fwell, and discharge no blood, her are exceeding painful, the difease is called the blind piles.

Persons of a loose spongy sibre, of a bulky size, who live high, und lead a fed ntary, inactive life, are most subject to this disease. It is often owing to an hereditary disposition. Where this is the cafe, it attacks perfins more early in life than when it is accidental. Been are more liable to it than women, especially those of a sanguine, plethoric, or a scorbutic habit, or of a melancholy disposition.

<sup>\*</sup> F. on ten to twenty drops of the oil of turpentine in a little water eiven frequently, feldem fails t flop a bleeding of the the or from any

The piles may be occasioned by an excels of blood, by strong aloetic purges, high-seasoned food, drinking great quantities of sweet wines, the neglect of bleeding, or other customary evacuations, much riding, great costiveness, or any thing that occasions hard or difficult stools. Anger, grief, or other violent passions, will likewise occasion the piles. I have often known them brought on by sitting on the damp ground. A pair of thin breeches will excite the disorder in a person who is subject to it, and sometimes even in those who never had it before. Pregnant women are often afflicted with the piles.

A flux of blood from the anus is not always to be treated as a disease. It is even more falutary than bleeding at the nose, and often prevents or carries off diseases. It is peculiarly beneficial in the gout, rheumatism, asthma, and hypochondrizeal complaints, and

often proves critical in cholics, and inflammatory fevers.

In the management of the patient, regard must be had to his habit of body, his age, strength, and manner of living. A discharge which might be excessive and prove hursful to one, may be very moderate, and even salutary to another. That only is to be esteemed dangerous, which continues too long, and is in such quantity as to waste the patient's strength, hurt the digestion, nutrition, and other functions necessary to life.

When this is the case, the discharge must be checked by a proper regimen, and astringent medicines.—The DIET must be cool, but nourishing; consisting chiesly of bread, milk, cooling vegetables, and broth. The drink may be chaly beate-water, orange-whey, decoctions or insusions of the astringent and mucilaginous plants,—as the tormentil root, bistort, the marsh mallow roots,

, &с.

Old conferve of red roses, is a very good medicine in this case. It may be mixed with new milk, and taken in the quantity of an ounce three or four times a-day. The medicine is in no great repute, owing to its being seldom taken in such quantity as to produce any effects; but when taken as here directed, and duly persisted in, I have known it perform very extraordinary cures in violent hæmorrhages, especially when assisted by the tincture of roses; a tea-cup such of which may be taken about an hour after every dose of the conferve.

The Peruvian back is likewise proper in this case, both as a strengthener and astringent. Half a dram of it may be taken in a glass of red wine, sharpened with a few drops of the clixir of vitriol, three or four times a day.

The bleeding piles are some times periodical, and return regularly once a month, or once in three weeks. In this case they are always to be considered as a salutary discharge, and by no means to

be stopped. Some have entirely ruined their health by stopping a

periodical discharge of blood from the hæmorthoidal veins.

In the blind piles, bleeding is generally of use. The diet must be light and thin, and the drink cool and diluting. It is likewise necessary that the body be kept gently open. This may be done by small doses of the flour of brimstone and cream of tartar. These may be mixed in equal quantities, and a rea-spoonful taken two or three times a day, or oftener, if necessary. Or an ounce of the flour of brimstone, and half an ounce of purished nitre may be mixed with three or four ounces of the lenitive electuary, and a tea-spoonful of it taken three or four times a day.

Emclient clysters are here likewise beneficial; but there is sometimes such an astriction of the anus, that they cannot be thrown up.

In this case I have known a vomit have a very good effect.

When the piles are extremely painful and swelled, but discharge nothing, the patient must fit over the steams of warm water. He may likewise apply a linen cloth dipped in warm spirits of wine to the part, or positives made of bread and milk, or of leeks fried with butter. If these do not produce a discharge, and the piles appear large, leeches must be applied as near them as possible, or if they will fix upon the piles themselves, so much the better. When leeches will not fix, the piles may be opened with a lancet. The operation is very easy, and is attended with no danger

Various of other nis, and other external applications, are recommended in the piles; out I do not remember to have feen any effects from those worth mentioning. Their principal use is to keep the part most, which may be done as well by a soft poultice, or an emoste in cataplasm. When the pain however is very great, a liniment made of two ounces of emollient cintment, and half an ounce of liquid laudanum beat up with the yolk of an egg, may be ap-

plied

SPITTING OF BLOOD.

We mean here to treat of that discharge of blood from the lungs only, which is called an hamptae, or spitting of blood. P rions of a slender make, and a lax fibre, who have long necks and strait breasts, are most liable to this disease. It is most common in the spring, and generally attacks people before they arrive at the prime or middle period of life. It is a common observation, that these who have been subject to bleeding at the nose when young, are afterwards in it liable to a hamoptoe.

CAUSES—A harmoptoe may proceed from excess of blood, from a peculiar weakness of the longs, or a bad conformation of the breat. It is often occasioned by excessive drinking, running, wrestling, anging, or speaking aloud. Such a have weak lungs,

ought to avoid all violent exertions of that organ, as they value life. They should likewise guard against violent passions, excessive drinking, and every thing that occasions a rapid circulation of the blood.

This difease may likewise proceed from wounds of the lungs. These may either proceed from without, or they may be occasioned by hard bodies geting into the wind-pipe, and so falling down upon the lungs, and hurting that tender organ. The obstruction of any cultomary evacuation may occasion a spitting of blood; as neglect of bleeding or purging at the usual seasons, the stopage of the bleeding piles in men, or the menses in women, &c. It may likewise proceed from a polypus, scirrhus concretions, or any thing that obstructs the circulation of the blood in the lungs. It is often the effect of a long and violent cough; in which case it is generally the forerunner of a confumption. A violent degree of cold fuddenly applied to the external parts of the body will occasion an hæmoptoe. It may likewise be occasioned by breathing air which is too much rarified to be able properly to expand the lungs This is often the case with those who work in hot places, as furnaces, glass houses, or the like. It is likewise said to happen to such as ascend to the top of very high mountains, as the Peak of Teneriff, &c.

Spiting of blood is not always to be considered as a primary difcase. It is often only a symptom, and in some diseases not an unfavorable one. This is the case in pleurisies, peripuumonies, and sundry other severs. In a dropsy, scurvy, or consumption, it is a

bad fymptom, and shews that the lungs are ulcerated.

SYMPTOMS.—Spiting of blood is generally preceded by a fente of weight, and oppression of the breast, a dry tickling cough, hoarseness, and a difficulty of breathing. Sometimes it is ushered in with shivering, coldness of the extremities, costiveness, great lassificate, statutence, pain of the back and loins, &c. As these shew a general stricture upon the vessels, and a tendency of the blood to influration, they are commonly the forerunners of a very copious discharge. The above symptoms do not attend a discharge of blood from the gums or fauces, by which means these may always be distinguished from an hamoptoe. Sometimes the blood that is spit up is thin, and of a florid red color; and at other times it is thick, and of a dark or blackish color; nothing however can be infered from this circumstance, but that the blood has lain a longer or shorter time in the breast, before it was discharged.

Spiting of blood in a firong healthy person, of a sound constitution, is not very dangerous; but when it attacks the tender and delicate, or persons of a weak lax fibre, it is with difficulty removed. When it proceeds from a schirrbus or polypus of the lungs, it is bad. The danger is greater when the discharge proceeds from the rupture of a large vessel than of a small one. When the extravasated blood is not spit up, but lodges in the breast, it corrupts, and greatly increases the danger. When the blood proceeds from an

ulcer in the lungs, it is generally fatal.

REGIMEN.—The patient ought to be kept cool and eafy.—Every thin, that heats the body or quickens the circulation, increases the danger. The mind ought likewife to be foothed, and every occasion of exciting the passons avoided. The diet should be soft; cooling, and slender; as rice boiled with milk, small broths, barley gruel, panado, &c. The diet, in this case, can scarce be too low. Even water-gruel is sufficient to support the patient for some days. All strong liquors must be avoided. The patient may drink milk and water, barley water, whey, butter-milk, and such like. Every thing, however, should be drank cold, and in small quantities at a time. He should observe the strictest silence, or at least speak with a very low voice.

MEDICINE.—This, like the other involuntary discharges of blood, ought not to be suddenly stoped by astringent medicines. More mischief is often done by these, than if it were suffered to go on. It may, however, proceed so far as to weaken the patient, and even endanger life; in which case proper means must be used for

restrainingit.

The body should be kept gently open by laxative diet; as roasted apples, stewed prunes, and such like. If these should not have the defired effect, a tea spoonful of the lenitive electuary may be taken twice or thrice a day, as is found necessary. If the bleeding proves violent, ligatures may be applied to the extremities, as directed for

a bleeding at the nofe.

If the patient be hot or feverish, bleeding and small doses of nitre will be of use; a scruple or half a dram of nitre may be taken in a cup of his ordinary drink twice or thrice a day. His drink may likewise be sharpened with acids, as juice of lemon, or a few drops of the spirit of vitriol; or he may take frequently a cup of the tincture of roses.

Bathing the feet and legs in lukewarm water, has likewife a very good effect in this difease. Opiates too are sometimes beneficial; but these must be administered with caution. Ten or twelve drops of laudanum may be given in a cup of barley water twice a day, and continued for some time, provided they be found beneficial.

The conferve of roses is likewise a very good medicine in this case, provided it be taken in sufficient quantity, and long enough persisted in. It may be taken toothe quantity of three or four ounges a day; and, if the patient be troubled with a cough, it should

be made into an electuary with balfamic fyrup, and a little fyrup of

poppies.

If througer aftringents be necessary, fifteen or twenty drops of the clixir of vitriol may be given in a glass of water three or four

times a-day.

Those who are subject to frequent returns of this disease, should avoid all excess. Their diet should be light and cool, consisting chiefly of milk and vegetables. Above all, let them beware of vigorous efforts of the body, and violent agitations of the mind.

#### VOMITING OF BLOOD.

This is not fo common as the other discharges of blood which have already been mentioned; but it is very dangerous, and requires particular attention.

Vomiting of blood is generally preceded by pain of the stomach, sickness and nausea; and is accompanied with great anxiety, and

frequent fainting fits.

This disease is sometimes periodical; in which case it is less dangerous. It often proceeds from an obstruction of the menses in women; and sometimes from the stoping of the hamorrhoidal flow in men. It may be occasioned by any thing that greatly stimulates or wounds the stomach, as strong vomits or purges, acrid poisons, sharp or hard substances taken into the stomach, &c. It is often the effect of obstructions in the liver, the spleen, or some of the other viscera. It may likewise proceed from external violence, as blows or bruises, or from any of the causes which produce inflamation. In hysteric women, vomiting of blood is a very common, but by no means a dangerous symptom.

A great part of the danger in this disease arises from the extravafated blood lodging in the bowels, and becoming purid, by which means a dysentery or putrid sever may be occasioned. The best way of preventing this, is to keep the body gently open, by frequently administering emollient clysters. Purges must not be given till the discharge is stopt, otherwise they will irritate the stomach, and ingrease the disorder. All the food and drink must be of a mild cooling nature, and taken in small quantities. Even drinking cold water has sometimes proved a remedy, but it will succeed better when sharpened with the weak spirits of vitriol. When there are signs of an inflamation, bleeding may be necessary; but the patient's weakness will seldom permit it. Opiates may be of use; but they must be given in very small doses, as sour or sive drops of liquid laudanum twice or thrice a-day.

After the discharge is over, as the patient is generally troubled with gripes, occasioned by the accimony of the blood lodged in the

intestines, gentle purges will be necessary.

# OF BLOODY URINE.

This is a discharge of blood from the vessels of the kidneys or bladder, occasioned by their being either enlarged, broken or eroded. It is more or less dangerous according to the different circum-

stances which attend it.

When pure blood is veided fuddenly without interruption and without pain, it proceeds from the kidneys; but if the blood be in fmall quantity of a dark colour, and emitted with heat and pain about the bottom of the belly, it proceeds from the bladder. When bloody urine is occasioned by a rough stone descending from the kidneys to the bladder, which wounds the ureters, it is attended with a sharp pain in the back, and difficulty of making water. If the coats of the bladder are hurt by a stone, and the bloody urine follows, it is attended with the most acute pain, and previous stoppage of urine.

Bloody urine may likewife be occasioned by falls, blows, the lifting or carrying of heavy burdens, hard riding, or any violent motion. It may also proceed from ulcers of the bladder, from a stone lodged in the kidneys, or from violent purges, or sharp diuretic

medicines, especially cantharides.

Bloody urine is always attended with fome degree of danger but it is peculiarly so when mixed with purulent matter, as this shews an ulcer somewhere in the urinary passages. Sometimes this discharge proceeds from excess of blood, in which case it is rather to be considered as a falutary evacuation than a disease. If the discharge, however, he very great, it may waste the patient's strength, and occasion an ill habit of body, a dropsy, or a consumption.

The treatment of this diforder must be varied according to the

different causes from which it proceeds.

When it is owing to a stone in the bladder, the cure depends upon an operation; a description of which would be foreign to our

If it be intended with a plethora, and symptoms of inflamation, bleeding will be necessary. The body must likewise be kept open by emmollient clyflers, or cooling purgative medicines; as cream of tartar, rhubarb, manna, or small doses of lenitive electuary.

When bloody urine proceeds from a diffolved state of the blood, it is commonly the symptom of some malignant disease; as the fmall pox, a putrid fever, or the like. In this case the patient's life depends on the liberal use of the Peruvian bark and acids, as has already been shewn.

When there is reason to suspect an ulcer in the kidneys or bladder, the patient's diet must be cool, and his drink of a fost, healing balfamic quality, as decoctions of marshinallow roots with liquorice, folution of gum-arabic, &c. Three ounces of marsh-mallow roots, and half an ounce of liquorice, may be boiled in two English quarts of water to one; two ounces of gum arabic, and half an ounce of purified nitre, may be diffolved in the strained liquor, and a tea-cupful of it taken four or five times a-day.

The early use of aftringents in this disease has often bad consequences. When the flux is stopped too soon, the grumous blood, by being confined in the vessels, may produce inflamations, absects, and ulcers. If, however, the case he urgent, or the patient seems to suffer from the loss of blood, gentle aftringents may be necessary. In this case the patient may take three or four ounces of lime-water, with half an ounce of the tincture of Peruvian bark, three times a-day.

## OF THE DYSENTERY, OR BLOODY FLUX.

This disease prevails in the spring and autumn. It is most common in marshy countries, where, after hot and dry summers, it is apt to become epidemic. Persons are most liable to it who are much exposed to the night air, or who live in places where the air is confined and unwholesome. Hence it often proves fatal in camps, on thip bard, in jails, hospitals, and such like places.

CAUSES.—The dyfentery may be occasioned by any thing that obstructs the perspiration, or renders the humors putrid; as damp beds, wet clothes, unwholesome diet, bad air, &c. But it is most frequently communicated by insection. This ought to make people extremely cautious in going near such persons as labor under the disease. Even the smell of the patient's excrements has been known to communicate the insection.

SYMPTOMS.—It is known by flux of the belly, attended with violent pain of the bowels, a constant inclination to go to stool, and generally more or less blood in the stools. It begins, like other severs, with chillness, loss of strength, a quick pulse, great thirst, and an inclination to vomit. The stools are at first greafy & frothy, afterwards they are streaked with blood, and at last have the appearance of pure blood, mixed with small silaments resembling bits of skin. Worms are sometimes passed both appearas and downwards through the whole course of the disease. When the patient goes to stool, he seels a bearing down, as if the whole bowels were stalling out, and sometimes a part of the intessines is actually protruded, which proves exceeding troublesome, especially in children.—Flatulency is likewise a troublesome symptom, especially towards the end of the disease.

This disease may be distinguished from a diarrhea or looseness, by the acute pain of the bowels, and the blood which generally appears in the stools. It may be distinguished from the chelera mer-

bus by its not being attended with fuch violent and frequent his of

vomiting, &c.

When the dyfentery attacks the old, the delicate, or such as have been wasted by the gout, the scurvy, or other lingering disasses, it generally proves satal. Vomiting and hicconging are bad signs, as they show an issuadion of the stomach. When the stools are green, black, or have an exceeding disagreeable cadaverous smell the danger is very great, as it shows the disease to be of the putrid kind. It is an unsavorable symptom when clysters are immediately returned; but still more so, when the passage is so obstinately shut, that they cannot be injected. A seable pulse, coldness of the extremities, with difficulty of swallowing, and convulsions, are signs of approaching death.

REGIMEN.—Nothing is of more importance in this difease than cleanlines. It contributes greatly to the recovery of the patient, and no less to the safety of such as attend them. In all contagious diseases the danger is increased, and the insection spread, by the neglect of cleanlines; but in no one more than this. Every thing about the patient should be frequently changed. The excrements should never be suffered to continue in his chamber, but removed immediately, and buried under ground. A constant stream of fresh air should be admitted into the chamber; and it ought frequently to be sprinkled with vinegar, juice of lemon, or some other strong acid.

The patient must not be discouraged, but his spirits kept up in hopes of a cure. Nothing tends more to render any putrid disease mortal, than the tears and apprehensions of the sick. All diseases of this nature have a tendency to sink and depress the spirits, and when that is increased by sears and alarms from hose whom the patient believes to be persons of skill, it cannot fall to have the worst

effects.

A flannel waiftcoa wore next the skin has often a very good effect in the dysentery. This promotes the perspiration without overheating the body. Great caution, however, is necessary in leaving it off. I have often known a dysentery brought on by imprudently throwing off a flannel waiftcoat before the season was sufficiently warm. For whatever purpose this piece of dress is worn, it should never be left off but in a warm season.

In this disease, the greatest attention must be paid to the patient's diet. Flesh, sish, and every thing that has a tendency to turn putrid or rancid on the stomach must be abstained from.—Apples beiled in milk, water-pap, and plain light pudding, with broth made of the gelatinous parts of animals, may constitute the principal part of the patient's food. Gelatinous broth not only answers the jurpose of food, but likewise of medicine. I have of an known dylen-

teries, which were not of a putrid nature, cured by it after pom-

pous medicines had proved ineffectual\*.

Another kind of food very proper in the dysentery, which may be used by such as cannot take the broth mentioned above, is made by boiling a few handfuls of fine flour tied in a cloth, for six or seven hours, till it becomes as hard as starch. Two or three table-speenfuls of this may be grated down, and boiled in such a quantity of new milk and water as to be of the thickness of pap. This may be sweetened to the patient's taste, and taken for his ordinary foodt.

In a putrid dyfentery, the patient may be allowed to eat freely of most kinds of good ripe fruit; as apples, grapes, gooseberries, currant-berries, strawberries, &c. These may either be eaten raw or boiled, with or without milk, as the patient chooses. The prejudice against fruit in this disease is so great, that many believe it to be the common cause of dysenteries. This however is an egregious mistake. Both reason and experience shew, that good fruit is one of the best medicines, both for the prevention and cure of the dysen-

\* The manner of making this broth is, to take a sheep's head and fect, with the skin upon them, and to burn the wood off with a hot iron; afterwards to boil them till the broth is quite a jelly. A little cinnumon or mace may be added, to give the broth an agreeable flavor, and the patient may take a little of it warm with toafted bread three or four times a-day. A clyster of it may likewise be given twice a-day. Such as cannot use the broth made in this way, may have the head and feet skinned; but we have reason to believe that this injures the medicine. It is not our business here to reason upon the nature and qualities of medicine, otherwise this might be shown to possess virtue every way suited to the cure of a defentery which does not proceed from a putrid state of the humours. One thing we know, which is preferable to all reasoning, that whole families have often been cured by it, after they had used many other medicines in vain. It will, however, he proper, that the patient take a nomit, and a dife or two of rhubarh, before he begins to use it a broth. It will likewift be necessary to continue the use of it for a confulerable time, and to make it the principal food.

† The learned and humane Dr. Putherford, late professive of medicine in the university of Edinburgh, used to mention this food in his public lectures, with great encomiums. He directed it to be made by tying a pound or two of the finest flour, as tight as possible, in a linner rag, afterwards to dip it frequently in water, and to dridge the outside with flour, till a cake or crust was formed around it, which prevents the water from soaking into it while boiling. It is then to be boiled till it becomes a hard dry moss, as directed above, This, when mixed with mith and water, will not only answer the purpose of food, but may like-

wife be given in elyffers.

tery. Good fruit is in every respect calculated to counteract that tendency to putrefaction, from whence the most dangerous kind of dysentery proceeds. The patient in such a case ought therefore to be allowed to eat as much fruit as he pleases, provided it be ripe\*.

The most proper drink in this disorder is whey. The dysentery has often been cured by the use of clear whey alone. It may be taken both for drink and in form of clyster. When it cannot be had, barley-water sharpened with cream of tartar may be drank, or a decoction of barley and tamarinds; two ounces of the former and one of the latter may be boiled in two English quarts of water to one. Warm water, water-gruel, or water wherein het iron has been frequently quenched, are all very proper, and may be drank in turns. Camomile-tea, if the flomach will bear it, is an exceeding proper drink. It buth strengthens the stomach, and by its antifeeptic quality, tends to prevent a mortification of the bowels.

MEDICINE.—At the beginning of this disease it is always neceffary to cleanfe the first passages. For this purpose a vontit of ipecacuanha must be given, and wrought off with weak camomile-tea. Strong vomits are feldom necessary here. A scruple, or at most half a dram of ipecacuauha, is generally sufficient for an adult, and fornetimes a very few grains will suffice. The day after the vomit half a dram or two fcruples of rhubarb, must be taken; or, what will answer the purpose rather better, an ounce or an ounce and an half of Epfom falts. This dose may be repeated every other day for two or three times. Afterwards small doses of ipecacuarba may be taken for some time. Two or three grains of the powder may be mixed in a table-spoonful of the syrup of poppies, and taken three times a-day.

\* I lately faw a young man who had been scized with a desentery in North America. Many things had been tried there for his relief, but to no purpose. At length tired out with disappointment from medicine, and reduced to fin and bone, he came over to Britain, rather with a view to die among his relations, than with any hopes of a cure. After taking fundry meditives here with no better success than abroad, I advised him to leave off the use of drugs, and to trust entirely to a diet of mill and fruits, with gentle exercise. Strawberries were the only fruit he could procure at that feafon. These he ate with milk twice, and sometimes thrice a-day: The confequence was, that in a short time his stools were reduced from upwards of twenty in a day, to three or four, and sometimes not so many. He used the other fruits as they came in, and was in a few weeks so well as to leave that part of the country where I was, with a view to return to america. .

These evacuations, and the rep as to prescribed above, will often be sufficient to essent a cure. Subjust it however happen otherwise,

the fo owng attringent medicin a may be used:

A clyster of stanch, or lat muston broth, with thirty or forty drops of liquid landanum in it, may be administered twice a day. At the same time, an ounce of gum arabic, and nutt an ounce of gum tragacanth, may be dissived in a plut of barley water, over a flow fire, and a table spoonful of it taken every hour.

If these have not the desired effect, the patient may take, four times a day, about the burk of a nutineg or the I ponia Contestion.

drinking after it a tex cupful of the decost on of regweec.

Perfors who have been cuted of this directe the very liable to relaple; to prevent which, great circumspection with respect to diet is necessary. The patient must abstain from all semented liquors, except now and then a glass of good wine; but he must drink no kind of malt liquor. He should be wise abstain from animal food, as sish and sless, and live principally on milk and vegetables.

Gentle exercise and wholesome air are likewise of importance. The patient should go to the country as soon as his strength will permit, and should take gentle exercise daily on horseback, or in a carriage. He may likewise me bitters insuled in wine or brandy, and may drink twice a day a gill of lime water, mixed with an

equal quantity of new milk.

When dysenteries prevail, we would recommend a strict extension to clearliness, a spare use of enitual food, and the free use of found ripe fruits, and other vegetables. The night air is to be carefully avoided, and all communication with the sick. Bad smells are likewise to be shunned, especially those which arise from putrid animal substances. The necessaries where the sick go, are carefully to be avoided.

When the first symptoms of the desentery appear, the patient ought immediately to take a vomit, go to bed, and drink plentitudy of week warm liquor, to promote a facet. This, with a dose or two of the barb at the highning, would often carry off the different lin countries where distinteries prevail, we would advise such as are liable to them, to take either a vomit or a purge every

Ip ing or auturan, as a preventive

There are fundry other fluxes of the belly, as the LIENTERY and CCELIAC PASSION, which, though lefs dangerous than the dyfentery, yet increasing indication. These differences generally proceed from a relaxed state of the stomach and intestines, which a sometime so great, that the food pass strongs them, with budly any sensible alteration; and the patient dies merely from the want of nourishment.

When the lientery or collar passion succeeds to a dysontery, the case is bad. They are always dangerous in old age, officially when the constitution has been broken by excess or acute diseases. If the stools be very frequent, and quite crude, the thirst great, with little urine, the mouth ulcerated, and the sace marked with spots of different colours, the danger is very great.

The treatment of the patient is in general the same as in the dysentery. In all obstinate fluxes of the belly, the cure must be attempted, by first cleansing the stomach and bowels with gentle somits and purges; afterwards such a diet as has a tendency to heal and strengthen the bowels, with optates and aftringent medi-

cines, will generally complete the cure.

The same observation holds in respect to a TENESMUS, or frequent desire of going to stool. This disease resembles the dy. sentery so much, both in its symptoms and method of cure, that

we think it needless to insist upon it.

#### CHAP. XXXIV.

#### OF THE HEAD-ACHE.

A CHES and pains proceed from very different causes, and may affect any part of the body; but we shall point out those only which occur most frequently, and are attended with the greatest danger.

When the head-ache is flight, and affects a particular part of the head only it is called cephalægia; when the whole head is affected, cephalæa; and when on one fide only, hemicrania. A fixed pain in the forehead which may be covered with the end of the thumb, is

called the clavis hystericus.

There are also other distinctions Sometimes the pain is internal, sometimes external; sometimes it is an original disease, and at other times only symptomatic. When the head-ache proceeds from a hot bilious habit, the pain is very acute and throbing, with a considerable heat of the part affected. When from a cold phlegmatic habit, the patient complains of a dull heavy pain, and has a sense of coldness in the part. This kind of head-ache is sometimes attended with a degree of stupidity or folly.

Whatever obstructs the free circulation of the blood thro' the vessels of the head, may occasion the head ache. In persons of a suit habit, who abound with blood, the head ache often proceeds from the suppression of customary evacuations, as bleeding at the

nose, sweating of the feet, &c. It may likewise proceed from any cause that determines a great flux of blood towards the head; as coldness of the extremities, or hanging down the head for a long time. Whatever prevents the return of the blood from the head will likewise occasion a head-ache; as looking long obliquely at any object, wearing any thing tight about the neck, a new hat or the like.

When a head-ache proceeds from the stoppage of a running at the nose, there is a heavy obtuse, pressing pain in the fore part of the head, in which there seems to be such a weight, that the patient can scarce hold it up. When it is occasioned by the caustic matter of the Venereal disease, it generally affects the skull, and often produ-

ces a caries of the bones.

Sometimes the head-ache proceeds from the repulsion or retrocefsion of the gout, the erysipelas, small-pox, measles, itch, or other eruptive diseases. What is called a hemicrania generally, proceeds from crudities or indigestion. Inanition, or emptiness, will often also occasion head-aches. I have often seen instances of this in nurses, who gave suck too long, or who did not take a sufficient quantity of folid food.

There is likewise a most violent, fixed, constant and almost intolerable head-ache, which occasions great debility both of body and mind, prevents sleep, destroys the appetite, causes a vertige, dimness of sight, a noise in the ears, convulsions, epileptic sits, and sometimes vomiting, cossiveness, coldness of the extremities, &c.

The head-ache is often symptomatic in continual and intermiting fevers, especially quartans. It is likewise a very common symptom

in hytheric and hypocondriac complaints.

When a head ache attends an acute fever, with pale urine, it is an unfavorable fymptom. In excessive head-aches, coldness of the extremities is a bad sign.

When the discase continues long, and is very violent, it often terminates in blindness, an apoplexy, deafness, a vertige, the palfy, or

the epilepfy.

In this disease the cool regimen in general is to be observed. The diet ought to consist of such emollient substances as will correct the acrimony of the humours, and keep the body open, as apples boiled in milk, spinnage, turnips, and such like. The drink ought to be diluting; as barley-water, insusons of mild mucillaginous vegetables, decoctions of the sudorific woods, &c. The feet and legs ought to be kept warm, and frequently bathed in lukewarm water; the head should be shaved, and bathed with water and vinegar. The patient ought as much as possible to keep in an erect possure, and not to lie with his head too low.

When the head-ache is owing to excess of blood, or an hot bilious constitution, bleeding is necessary. The patient may be bled in the jugular vein, and the operation repeated it there be occasion. Cupping also, or the application of leeches to the temples, and behind the ears, will be of service. Afterwards a blistering plaster may be applied to the neck behind the ears, or to any part of the head that is most affected. In some cases it will be proper to blister the whole head. In persons of a gross habit, issues or perpetual busters will be of service. The bedy ought likewise to be kept open by gentle laxatives.

But when the head-ache proceeds from a copious vitiated ferem stagnating in the membranes, either within or without the skell, with a dull heavy, continual pain, which will neither yield to bleeding nor gentle laxatives, then more powerful purgatives are necessary, as pills made of aloes, refin of jalap, or the like. It will also be necessary in this case to blister the whole head, and to keep the back part of themselk open for a considerable time by a perpet-

ual blifter.

When the head-ache is occasioned by the stopage of a running at the nose, the patient should frequently smell to a bottle of volatile salts; he may likewise take snuff, or any thing that will initiate the nose, so as to promote a discharge from it; as the herb massicle.

ground ivy, &c.

A hemicrania especially a periodical one, is generally owing to a foulness of the stomach, for which gentle vomits must be administered, as also purges of rhubarb. After the bowels have been sufficiently cleared, challybeate waters, and such bitters as strengthen the stomach, will be necessary. A periodical head-ache has been cured by wearing a piece of slannel over the forehead during the night.

When the head-ache arises from a vitiated state of the humors, as in the scurvy and venereal disease, the patient, after proper evacuations, must drink freely of the decoction of woods, or the decoction of sarsaparilla, with a sins and liquorice.\* These, if duly persisted in; will produce very happy effects. When a collection of matter is felt under the skin, it must be discharged by an incision,

otherwise it will render the bone carious

When the head-ache is fo intolerable as to endanger the patient's life, or is attended with continual watching and delirium, recourse, must be had to opiates. These, after proper evacuations by clysters or mild purgatives, may be applied both externally and internally. The affected part may be rubbed with Bate's anodyne balfam, or a cloth dipped in it may be applied to the part. The pa-

<sup>\*</sup> See Appendix, Decoction of Sarsaparilla.

tient may at the same time, take twenty drops of laudanum, in a cup of velerian or penny-royal tea, twice or thrice a-day. is only to be done in case of extreme pain. Proper evacuations

ought always to accompany and follow the use of opiates\*.

When the patient cannot bear the loss of blood, his feet ought frequently to be bathed in luke warm water, and well rubbed with coarfe cloth. Cataplaims with muftard or horfe-radish ought likerife to be applied to them. This courfe is peculiarly necessary when the pain proceds from a gonty humour affecting the head.

When the head-ache is occasioned by great heat, hard labor, or violent exercise of any kind, it may be allayed by cooling medicines

-as the faline draughts with nitre, and the like.

A little wher, dropt in the palm of the hand, and applied to the forehead, will some times remove a violent head-ache.

OF THE TOOTH-ACHE.

This discase is so well known, that it needs, no description. It has great affinity with the rheumatism, and often succeeds pains of

the shoulders and other parts of the body.

It may proceed from obstructed perspiration, or any of the other causes of inflamation. I have often known the tooth-ache occafioned by reglecting some part of the usual coverings of the head, by ferring with the head bare near an open window, or exposing it or a draught of cold air. Food or drink taken either too hot or too cold, is very hurtful to the teeth. Great quantities of fugar, or other sweet-meats, are likewise hurtful. Nothing is more destructive to the teeth than craking nuts, or chewing any kind of hard fubfirnces. Picking the teeth with pins, needles, or any thing that may hart the enamel with which they are covered, does great mifchief, as the tooth is fure to be spoiled whenever the air gets into it. Breeding women are very subject to the tooth-ache, especially during the first three or four months of pregnancy. The tooth-ache often proceeds from Corbutic humours affecting the gums. In this case the teeth are femetimes wasted, and fall out without any confiderable degree of pain. The more immediate cause of the tooth-ache is a rotten or carious tooth.

In order to relieve the tooth-ache, we must first endeavor to lest n the flux of humors to the part affected. This may be done by mild purgatives, fearifying the gums, or applying leeches to them, and bathing the feet frequently in warm water. The perfrira-

<sup>\*</sup>IV hen the pain is very violent, and does not yield to small doses of land arum, the quantity may be increased. I have known a patient in extreme pain take three hundred drops in twenty four hours; but fuch dojes ought only to be administered by persons of skill.

vine ought likewise to be promoted, by drinking freely of weak wine whey, or other diluting liquors, with small doses of nitre.—Vomits too have often an exceeding good effect in the tooth-ache. It is feldom safe to administer opiates, or any kind of heating medicines, or even to draw a tooth, till proper evacuations have been.

premised; and these alone will often effect the cure.

If this fails, and the p in and inflamation still increases, a suppuration may be expected, to promote which a toasted fig should be held between the gum and check; bags of boiled camonile flowers, slowers of elder, or the like, may be applied near the part affected, with as great a degree of warmth as the patient can bear, and renewed as they grow cool; the patient may likewise receive the steams of warm water into his mouth, through an inverted sunnel, or by holding his head over the mouth of a porringer filled with warm water.

Such things as promote the discharge of saliva, or cause the patient to spit, are generally of service. For this purpose, bitter, hor, or pungent vegetables may be chewed; as gentian, calamus, aromaticus or pellitory of Spain. Allen recommends the root of yellow water flower-du-luce in this case. This root may either be subbed upon the tooth, or a little of it chewed. Brookes says he hardly ever knew it to fail to ease the tooth-ache. It ought however to be used with caution.

Many other herbs, roots, and feeds, are recommended for curing the tooth-ache; as the leaves or roots of milfoil or yarrow chewed, tobacco smooked or chewed, staves-acre, or the feeds of mustard chewed, &c. These bitter, hot, and pungent things, by occasioning a greater flow of faliva, frequently give ease in the tooth-ache.

Opiates often relieve the tooth-ache. For this purpose a little cotton wet with landanum may be held between the teeth'; or a piece of slicking plaster, about the bigness of a shilling, with a bit of epinum in the middle of it, of a size not to prevent the slicking of the other, may be laid on the temporal artery, where the pulsation is most sensible. De la Mott affirms, that there are sew cases wherein this will not give relief. If there be a hollow tooth, a small pill made of equal parts of caphire and opinm, put into the hollow, is often beneficial. When this cannot be had, the hollow tooth may be filled with gum-massich, wax, lead, or any substance that will stick in it, and keep out the external air.

For applications give more relief in the tooth-ache than bliftering plasters. These may be applied between the shoulders: but they have the best effect when put behind the cars, and made so large as

to cover a great part of the lower jaw.

After all, when a tooth is carious, it is often impossible to remove the pain without extracting it; and, as a spoiled tooth never becomes found again, it is prudent to draw it foon, left it should affect the rest. Tooth-drawing, like bleeding, is very much practifed by mechanics, as well as persons of the medical profession. The operation however is not without danger, and ought always to be personned with care. A person unacquainted with the structure of the parts will be in danger of hurting the jaw bone, or of drawing a sound tooth instead of a rotten one\*.

When the tooth ache returns periodically, and the pain chiefly

affects the gums, it may be cured by the bark.

Some pretend to have found great benefit in the tooth-ache, from the application of an artificial magnet to the affected tooth. We shall not attempt to account for its mode of operation; but, if it be found to answer, though only in particular cases, it certainly deserves a trial, as it is attended with no expence, and cannot do any harm. Electricity has likewise been recommended, and particular instruments have been invented for sending a shock through the affected tooth.

Persons who have returns of the tooth-ache at certain seasons, as spring and autumn, might often prevent it by taking a purge at these times.

Keeping the teeth clean has no doubt a tendency to prevent the tooth-ache. The best method of doing this is to wash them daily with salt and water, a decoction of the bark, or with cold water alone. All brushing and scraping of the teeth is dangerous, and, unless it be performed with great care, does mischief.

#### OF THE EAR-ACHE.

This disorder chiefly affects the membrane which lines the inner cavity of the ear, called the *meatus auditorius*. It is often so violent as to occasion great restlessing, anxiety, and even delirium.—Sometimes epileptic fits, and other convulsive disorders, have been

brought on by extreme pain in the ear.

The ear-ache may proceed from any of the causes which produce inflammation. It often proceeds from a sudden suppression of perspiration, or from the head being exposed to cold when covered with sweat. It may also be occasioned by worms, or other insects getting into the ear, or being bred there; or from any hard body sticking in the ear. Sometimes it proceeds from the translation of morbific matter to the ear. This often happens in the decline of malignant fevers, and occasions deafness, which is generally reckoned a favourable symptom.

\* This may always be prevented by the operator striking upon the teeth wit any piece of metal, as this never fails to excite the pain in the carious tooth.

When the ear-ache proceeds from infects, or any hard body flicking in the ear, every method must be taken to remove them as so in as possible. The membranes may be relixed by dropping into the ear oil of sweet almonds, or olive oil. Afterwards the patient should be made to succeed, by taking snuff, or some strong sternotary. If this should not force out the body, it must be extracted by art. I have seen infects, which had got into the ear, come out of their

own accord upon pouring in oil.

When the pain of the ear proceeds from it flammation, it must be treated like other topical inflummations, by a cooling regimen, and opening medicines. Bleeding at the beginning, either in the arm or jugular vien, or cupping in the neck, will be proper. The ear may likewise be somented with steams of warm water; or flannel bags filled with boiled mallows and camomile flowers may be applied to it warm; or bladders filled with milk and water. An exceeding good method of somenting the car is to apply it close to the mouth of a jug filled with warm water, or a strong decoction of camomile flowers.

The patient's feet should be frequently bathed in lukewarm water, and he ought to take small doses of nitre and rhubarb, viz. a scruple of the former, and ten grains of the latter, three times a-day. His drink may be whey, or decoction of barley and liquorice with figs or raisins. The part behind the ear ought frequently to be rubbed with camphorated oil, or a little of the volatile

liniment.

When the inflammation cannot be discussed, a poultice of bread and milk, or roasted onions, may be applied to the ear, and frequently renewed, till the abscess breaks, or can be opened. Afterwards the humours may be diverted from the part by gentle laxatives, blisters, or issues; but the discharge must not be suddenly dried up by any external application

## PAIN OF THE STOMACH, &c.

This may proceed from various causes; as indigestion, wind, the acrimony of the bile, sharp, acrid, or possonous substances taken into the stomach, &c. It may likewise be occasioned by worms; the stoppage of customary evacuations; a translation of gouty matter to the stomach, the bowels, &c.

Women in the decline of life are very liable to pains of the flomach and bowels, especially such as are afflicted with hysteric complaints. It is likewise very common to hypocondriae men of a sedentary and luxurious life. In such persons it often preves so

extremely obstinate as to baffle all the powers of medicine.

When the pain of the stomach is most violent after eating, there is reason to suspect that it proceeds from some fault either in the

digestion or the food. In Ithis case the patient ought to change his diet, till he finds what kind of food agrees best with his stomach, and should continue chiefly to use it. If a change of diet does not remove the complaint, the patient may take a gentle vomit, and afterwards a doie or to o of thubarb. He ought likewie to take an in sustant of camomile flawers, or some other stomachic bitter, either in wine or water. I have often known exercise remove this complaint, especially failing, or a long journey on horseback, or in a carriage.

When a pain of the stomach proceeds from flatulency, the patient is constantly belching up wind, and feels an uneasy distention of the flomach after meals. This is a most deplorable disease, and is feldom thoroughly cured. In general, the patient ought to avoid all windy diet, and every thing that fours on the stomach, as greens, roots, &c. This rule however admits of fome exceptions. There are many instances of persons very much troubled with wind, who have received great benefit from eating parched peas, though that grain is generally supposed to be of a windy nature.\*

This complaint may likewise be greatly relieved by labor, especially diging, reaping, mowing, or any kind of affive employment, by which the bow is are alternately compressed and dilated. The most obstinate case of this kind I ever met with was in a person of a fedentary occupation, whom I advised, after he had tried every kind of medicine in vain, to turn gardener; which he did, and has

ever fince enjoyed good health.

When a pain of the ftomach is occasioned by the swallowing of actid or polichous suchances, they must be discharged by vomit: this may be excited by butter, oils, or other foft things, which theath and defend the stomach from the acrimony of its contents

When pain of the stamach proceeds from a translation of gouty moter, warm cordials are necessary, as generous wines, French brandy, &cc. Some have drank a whole bottle of brandy or rum, in this cafe, in a few hours, without being in the least intoxicated, or even teeting the stemach warmed by it. It is impossible to afcertain the quantity necessary upon these occisions. This must be let to the feelings and discretion of the patient -The safer way. however, is, not to go too far. When there is an inclination to vomit, it may be promoted by drinking an infuton of camomileflorers, or carduus genedictus.

If a pair of the from a b proceed from the flopage of customery evacuations, bleeding, will be necessary, especially in sanguine and

<sup>\*</sup> Tirefe are prepared by fleeting or focking years in water, and afterwards drying them is a pet or kiln till they be quite hard. They may be used at pleasure. LI

very full babits. It will likewife be of use to keep the body gently open by mild purgatives, as rhubarb or senna -- When this disease affect, women in the decline of life, after the stopage of the menses, making an issue in the leg or arm will be of peculiar service.

When the dileafe is occasioned by werms, they must be destroyed or expelled by such means as are recommended in the following

fection.

When the stomach is greatly relaxed, and the digestion bad, which often occasions statulencies, the clixer of vitriol will be of singular service. Esteen or twenty drops of it may be taken in a

gla's of wine or water, twice or thrice a day.

Perfous effl fied with fixtulency are generally unhappy, unless they he taking some purgative medicines; these, tho' they may pive immediate ease, tend to weaken and relax the stomach and howels, and consequently increase the disorder. The best method is to mix purgatives and somachies together. Equal parts of Perevian back and rhubarb may be insured in brancy or wine, and taken in such quantity as to keep the body gently open.

#### CHAP. XXXV.

#### OF WORMS.

Worm; the teres, or round & long worm; and the afcarides, or reund and their worm. There are many other kinds of worms found in the human body; but as they proceed in a great measure from finitar causes, have nearly the same symptoms, and require almost the same method of treatment as these already mentioned, we shall not spend time in enumerating them.

The tape worm is white, very long, and full of joints. It is generally bred either in the stemach or small intestines. The round and long worm is likewise bred in the small guts, and semetimes in he stomach. The round and short worms commonly lodge in the ressum, or what is called the end gut, and occasioned a oifa

greeable itching about the feat.

The long round worms occasion squeamishness, vomiting, a disagreeable breath, stipes, looseness, swelling of the belly, woonings, loathing of food, and at other times a voracious appetite a dry cough, convultions, epileptic sits, and sometimes a privation of speech. These worms have been known to perferate the intestines and get into the cavity of the belty. The effects of the tapeworm are nearly the same with those of the long and round, but rather more violent.

Andry, fays, the following fymptoms particularly attend the folium, which is a species of the tape worm, viz. swoonings, privation of speech, and a varacious appetite. The round worms called afcaride, besides an itching of the unus, cause swoonings, and tenes-

mus, or an inclination to go to ftool.

CAUSES.—Worms may proceed from various causes; but they are seldom found except in weak and relaxed stomachs, where the dizestion is bad. Sedentary persons are more liable to them than the active and laborious. Those who cat great quantities of untipe fruit, or who live much ou raw herbs and roots, are generally subject to worms. There seems to be a heriditary disposition in some persons to this disease. I have often seen all the children of a femily subject to worms of a peculiar kind. They seem likewise frequently owing to the turse. Children of the same family, nursed by one woman, have often worms, when those nursed by another have none.

SYMPTOMS.—The common symptoms of worms are, palmess of the countenance, and, at other times, a universal flothing of the face,; itching of the nose; this however is doubtful, as children pick their noses in all diseases; starting and grinding of the teeth in sleep; swelling of the upper lip; the appetite sometimes bad, at other times quite voracious; looseness; a sour or stinking breath; a hard swelled belly; great thirst; the urine frothy, and sometimes of a whitish colour; griping or cholic pains; an involuntary discharge of saliva, especially when assecp; frequent pains of the side, with a dry cough, and unequal puse; palpitations of the heart, swoonings, drowsiness, cold sweats; palfy; epileptic sits, with many other unaccountable nervous symptoms, which were formerly attributed to witcherast, or the insuence of evil spirits. Small bodies in the excrements resembling melon or cucumber seeds, are symptoms of the tape worm.

I lately faw some surprising effects of worms in a girl about five years of age, who used to lay whole hours as if dead. She at left expired, and, upon opening her body, a number of the teres, or long round worms, were found in her guts, which were considerably inflamed; and what anatomists call an intus susceptio, or involving one part of the gut within another, had taken place in no less

thin four different parts of the intestinal canai\*.

\*That worms exist in the human body there can be no doubt; and that they must sometimes be considered as a disease, is equally certain; but this is not the case so often as people imagine. The idea that worms occasion many diseases, gives an opportunity to the prossisted worm dollers of imposing on the credulity of mankind, and doing much mischief.—They find worms in every case and liberally throw in their antidates,

MEDICINE.—Though numberless medicines are extolled for killing and expelling worms\*, yet no disease more frequently baffles the physician's skill. In general, the most proper medicines for their expulsion are strong purgatives; and to prevent their breeding,

stomachic bitters, with now and then a glass of good wine.

The best purge for an adult is jalap and calomel. Five and twenty or thirty grains of the former, with six or seven of the latter, mixed in syrup, may be taken early in the morning for a dosc. It will be proper that the patient keep the house all day, and drink nothing cold. The dose may be repeated once or twice a week, for a fortnight or three weeks. On the intermediate days, the patient may take a dram of the powder of tin, twice or thrice a-day, mixed with syrup, honey, or treacle.

Those who do not choose to take calomel may make use of the bitter purgatives, as aloes, hiera piera, tincture of seuna, and thu-

barb, &c.

Oily medicines are sometimes sound beneficial for expelling worms. An ounce of sallad oil and a table spoonful of common salt may be taken in a glass of red port wine thrice a-day, or oftener, if the stomach will bear it. But the more common form of using oil is in clysters. Oily clysters sweetened with sugar or honey, are very efficacious in bringing away the short round worms called afear.des, and likewise the teres.

The Harrowgate water is an excellent medicine for expelling worms, especially the ascarides. As this water is impregnated with fulphur we may hence infer, that fulphur alone must be a good medicine in this case; which is find to be a fact. Many practitioners give flour of sulphur in later and with great success. It should be made into an electuary with a cortical, and taken in such quantity as to purge the parient.

Where Harrowgate water cannot be obtaine water may be used, which is far from being a contemptible me in discase. If sea water cannot be had, common salt dissolved in may be drank. I have often seen this used by country not inh very good effect. Some flour of sulphur may be taken or and

the f It water in the morning.

But worms, though expelled, will foon breed again, if the domach remains weak and relaxed, to prevent which, we would recommend the Peruvian bank. Half a dram of bank in powder

which generally confils of firing druftic purges. I have known thefe given in delicate constitutions to the destruction of the patient, where there was not the least symptom of worms.

\*A medical writer of it present age les enumerated upwards of fif-

ty British plants, all celebrated for killing and empelling worms.

may be taken in a glass of red port wine three or four times a-day, after the above medicines have been used. Lime-water is likewise good for this purpose, or a table-spoonful of the chalybeate wine taken twice or thrice a-day. Infusions or decoctions of bitter herbs may likewise be drank; as the insusion of tansy, water trefoil, camomile flowers, tops of wormwood, the lesser centaury, &c.

For a child of four or five years old, fix grains of rhubarb, five of julap, and two of calomel, may be mixed in a spoonful of syrup or honey, and given in the morning. The child should keep the house all day, and take nothing cold. This defe may be repeated twice a week for three or tour weeks. On the intermediate days the child may take a scruple of powder of tin and ten grains of Ethiops mineral in a spoonful of treacle twice a day. This dose must be increased or diminished according to the age of the patient.

Biffet fays, the great baftard black hellebere, or bear's feet, is a most powerful vermifuge for the long round worms. He orders the decoction of about a dram of green leaves, or about fifteen grains of the dryed leaves in powder for a dose to a child between four and seven years of age. This dose is to be repeated two or three times. He adds, that the green leaves made into a syrup with coarse sugar, is almost the only medicine he has used for round worms for three years past. Before pressing out the joice, he moistens the bruised leaves with vinegar, which corrects the medicine. The dose is a tea spo onful at bed-time, and one or two next morning.

I have frequently known those big bellies, which in children, are commonly reckoned a fign of worms, quite removed by giving them white soap in their pottage or other food. Tansy, garlie, and rue, are all good against worms, and may be used various ways. We might here mention many other plants, both of external and internal use, as the cabbage bark, &c. but think the powder of tin with At hiops mineral, and the purges of rhubarb and calomel, are more

to be depended on.

Ball's purging vermifuge powder is a very powerful medicine.—It is made of equal parts of rhubarb, fearmony, and calomel, with as much double refined fugar as is equal to the weight of all the other ingredients. These must be well mixed together, and reduced to a fine powder. The the for a child is from ten grains to twenty, once or twice a week. An adult may take a dram for a dose\*.

Parents who would preferve their children from worms ought to allow them plenty of exercise in the open air; to take care that

<sup>\*</sup> A powder for the tape-worm refemiling this, was long kept a fesect on the continent; it was lately purchased by a French king, and will be found under the arcive Powdes, in the Appendix.

their food be wholesome and sufficiently solid; and, as far as possible, to prevent their eating raw herbs, roots, or green trashy truits. It will not be amiss to allow a child who is subject to worms, a glass of red wine after meals; as every thing that braces and strengthens the stomach is good both for preventing and expelling these vermin\*.

#### C H A P. XXXVI.

## OF THE JAUNDICE.

THIS disease is first observable in the white of the eye, which appears yellow. After this the whole skin puts on a yellow-ish appearance. The urine too is of a saffion hue, and dies a white cloth of the same color. There is likewise a species of this

disease called the black jaundice.

CAUSES.—The immediate cause of the jundice is an obstruction of the bile. The remote or occasional causes are, the bites of possionous animals, as the viper, mad-dog, &c. the bilious or hysteric cholic, violent passion, as grief anger, &c. Strong purges or vomits will likewise occasion the jaundice. Sometimes it proceeds from obstinate agues, or from that disease being prematurely stopped by astringent medicines. In infants it is often occasioned by the meconium not being sufficiently purged off. Pregnant women are very subject to it. It is likewise a symptom in several kinds of sever. Catching cold, or the stoppage of the customary evacuations, as the menses, the bleeding piles, itsues, &c. will occasion the jaundice.

SYMPTOMS.—The patient at first complains of excessive weariness, and has great aversion to every kind of motion. His skin is dry, and he generally feels a kind of itching or pricking pain ever the whole body. The stools are of a whitish or clay color, and the urine, as we observed above, is yellow. The breathing is difficult, and the patient complains of an unusual load or oppression on

\*We think it necessary here to warm people of their danger who buy cakes, powder, and other worm medicines at random of quacks, and give them to their children without proper care. The principal ingredient in most of these medicines is mercury, which is never to be tristed with. I lately saw a shocking instance of the danger of this condust. A girl who had taken a dese of warm proder, bought of a travelling quack, went out, and perhaps was so improdent as to drink cold water during its operation. She immediately swelled, and dud on the following day, with all the symptoms of having been possoned.

his breast. There is a heat in the nestrils, a bitter taste in the mouth, leathing of food, sickness of the stomach, vomiting, slatu-

lancy, and other fymptoms of indigeftion.

If the patient be young, and the difease complicated with no other malady, it is seldom dangerous; but in old people, where it continues long, returns frequently, or is complicated with the dropfy or hypocondriac symptoms, it generally proves satal. The black jaundice is more dangerous than the vellow.

REGIMEN.—The diet should be cool, light and diluting, consisting chiefly of ripe truits and mild vegetables; as at ples boiled or roasted, stewed prunes, preserved prumbs, boiled spinnage, &c. Veal and chicken broth, with light bread, are likewise very proper. Many have been cured by living almost wholly for some days on raw eggs. The drink should be butter-milk, whey sweetened with honey, or decoctions of cool opening vegetables; or marsh-mallow roots, with liquorice, &c.

The patient should take as much exercise as he can bear, either on horseback, or in a carriage; walking, running, and even jumping, are likewise proper, provided he can bear them without pain, and there be no symptoms of inflamation. Patients have been often cured of this disease by a long journey, after medicines

had proved ineffectual.

Amusements are likewise of great use in the jaundice. The disease is often occasioned by a sedentary life, joined to a dull reclancholy disposition. Whatever therefore tends to promote the circulation, and to cheer the spirits, must have a good effect; as dancing,

laughing, finging, &c.

MEDICINE.—If the patient be young, of a full fanguine habit, and complains of a pain in the right fide about the region of the liver, bleeding will be necessary. After this a vomit must be administered, and if the disease proves obstinate, it may be repeated once or twice. No medicines are more beneficial in the jaundice than vomits, especially where it is not attended with inflamation. Half a dram of ipecacuanha in powder will be a sufficient dose for an adult. It may be wrought off with weak camomile-tea, or luke-warm water. The body must likewise be kept open by taking a sufficient quantity of Casille soap, or the pills for the jaundice recommended in the Appendix.

Fomenting the part about the region of the stomach and liver, and rubbing them with a warm hand or sless brush, are likewise beneficial; but it is still more so for the patient to sit in a bath of warm water up to the breast. He ought to do this frequently, and

should continue in it as long as his strength will permit.

Many dirty things are recomended for the cure of the jaundice; as lice, millepedes, &c. But these do more harm than good,

as people trust to them, and neglect more valuable medicines; besides, they are seldom taken in sufficient quantity to produce any
effects. People always expect that such things should act as charms
and consequently seldom persist in the use of them. Vomits, purges, somentations and exercise, will seldom fail to cure the jaundice when it is a simple disease; and when complicated with the
dropsy, a scirrhus liver, or other chronic complaints, it is hard-

ly to be cured by any means.

Numberless British herbs are extelled for the cure of this discose. The author of the Medicina Britannica mentions near a hundred, all famous for curing the jaundice. The fact is, the discase often goes off of its own accord; in which case the last medicines is always said to have performed the cure. I have sometimes however seen considerable benefit, in a very obstinate jaundice, from a desection of hempseed. Four ounces of the seed may be boiled in two English quarts of ale, and sweetend with coarse sogar. The dose is half an English pint every morning. It may be continued for eight or ten days.

I have likewise known Harrowgate sulphur-water cure a juandice of very long standing. It should be used for some weeks, and

the patient must both drink and bathe.

The foliable tartar is a very proper medicine in the joundice. A dram of it may be taken every night and morning in a cup of tea or water-grach. If it does not open the body, the dose may be increased.

Persons subject to the jaundice ought to take as much exercise as possible, and to avoid all heating and astringent aliments.

#### CHAP. XXXVII.

#### OF THE DROPSY.

IFE dropfy is a preternatural swelling of the whole body, or some part of it, occasioned by a collection of watery humour. It is distinguished by different names, according to the part affected, as the anasarca, by a collection of water under the skin, the ascites, or a collection of water in the belly; the hydrops pectoris, or a dropfy of the breast; the hydrocephalus, or dropfy of the brain, &c.

CAUSES.—The dropfy is often owing to an hereditary disposition. It may likewise proceed from drinking ardent spirits, or other strong liquors. It is true almost to a proverb, that great drinkers die of a dropsy. The want of exercise is also a very common cause of the dropsy. Hence, it is justly reckoned among the discases of the segentary. It often proceeds from excessive evacuations, as frequent and copious bleedings, strong purges often repeated, frequent salivation, &c. The sudden stoppage of customary or necessary evacuations, as the menses, the hamorrhoids, siuxes of

the belly, &c. may likewife canfe a dropfy.

I have known the dropfy occasioned by drinking large quantities of cold, weak, watery liquor, when the body was heated by violent exercise. A low, damp, or marshy situation is likewise a frequent cause of it. Hence it is a common disease in moist, flat, senny countries. It may also be brought on by a long use of poor watery diet, or of vicous aliment that is hard of digestion. It is often the effect of other diseases, as the jaundice, a scirrhus of the liver, a violent ague of long continuance, a diarrhæa, a dysentery, an empyema, or a consumption of the longs. In short, whatever obstructs the perspiration, or prevents the blood from being duly prepared, may occasion a dropsy.

SYMPTOMS.—The anafarca generally begins with a swelling of the feet and ancies towards night, which for some time disappears in the morning. In the evening the parts, if pressed with the singer, will pit. The swelling gradually ascends, and occupies the trunk of the body, the arms, and the head. Asterwards the breathing becomes difficult, the urine is in small quantity, and the thirst great; the body is bound, and the perspiration is greatly obstructed. To these succeed torpor, heaviness, a slow wasting sever, and a troublesome cough. This last is generally a fatal symptom,

as it shews that the lungs are affected.

In an afcites, besides the above symptoms, there is a swelling of the belly, and often a fluctuation, which may be perceived by striking the belly on one side, and laying the palm of the hand on the opposite. This may be distinguished from a tympany by the weight of the swelling, as well as by the sluctuation. When the antifarc t and ascites are combined the case is very dangerous. Even a simple ascites feldom admits of a radical cure. Almost all that can be done is, to let off the water by tapping, which seldom affords more than a temporary relief.

When the disease comes suddenly on, and the patient is young and strong, there is reason however to hope for a cure, especially it medicine be given early. But if the patient be old, has led an irregular or sedentary life, or if there be reason to suspect that the liver, lungs, or any of the viscera are unsound, there is great rea-

fon to fear that the confequences will prove fatal.

REGIMEN.—The patient must abstain as much as possible, from all driak, especially weak and watery liquors, and must quench his thirst with mustard whey, or acids, as juice of lemons, oranges, serrel, or such like. His aliment ought to be dry, of a stimulating and diureric quality, at trafted bread, the siefly of birds, or other

wild animals roafted; pungent and aromatic vegetables, as garlic, mustard, onions, cresses, horse radish, rocambole, shalot, &c. He may also eat sea biscuit dipt in wine or a little brandy. This is not only nourishing, but tends to quench thirst. Some have been actually cured of a dropfy by a total abstinence from all liquids, and living entirely upon such things as are mentioned above. If the patient must have drink, the Spa-water, or Rhenish wine, with

diuretic medicines infused in it, are the best.

Exercise is of the greatest importance in a dropsy. If the patient be able to walk, dig, or the like, he ought to continue these exercises as long as he can. If he is not able to walk or labor, he must ride on horseback, or in a carriage, and the more violent the motion, so much the better, provided he can bear it. His bed ought to be hard, and the air of his apartment warm and dry. If he lives in a damp country he ought to be removed into a dry one, and, if possible into a warmer climate. In a word, every method should be taken to promote the perspiration, and to brace the solids. For this purpose it will likewise be proper to rub the patient's body, two or three times a-day, with a hard cloth, or the slessh-brush; and he ought constantly to wear flannel next his skin.

MEDICINE.—If the patient be young, his confliction good, and the difease has come on suddenly, it may generally be removed by strong vomits, brisk purges, and such medicines as premote a discharge by sweat and urine. For an adult, half a dram of specaceanha, in powder, and half an ounce of oxymel of squills, will be a proper vomit. This may be repeated as often as is found necessary, three or four days intervening between the doses. The patient most not drink much after taking the vomit, otherwise he deliroys its effect. A cup or two of camomile tea will be sufficient

to work it off.

Between each vomit, on one of the intermediate days, the patient may take the following purge: Jalap in powder half a dram, cream of tartar two drams, and calomel fix grains—These may be made into a bolus with a little syrup of pale roses, and taken early in the morning. The less the patient drinks after it the better. If he be much griped, he may now and then take a cup of chicken broth.

The patient may likewise take every night at bed time the sollowing bolus: To four or five grains of camphor add one grain of opium, and as much syrup of orange-peal as is sufficient to make them into a bolus. This will generally promote a gentle sweat, which should be encouraged by drinking now and then a small cup of wine-whey, with a tea-spoonful of the spirits of hartshorn in it. A tea-cupful of the following diaretic insusion may be taken every four or five hours through the day.

Take juniper berries, mustard seed, and horse radish, of each half an ounce, ashes of broom, half a pound; insuse them in a quart of Rhenish wine, or strong ale, for a few days, and asserwards strain off the liquor. Such as cannot take this insusion, may use the decection of seneka root, which is both diuretic and sudvision. I have known an obstinate anasarca cured by an insusion of the ashes of broom in wine.

The above course will often cure an incidental dropsy, if the constitution be good; but when the disease proceeds from a teal habit, or an unsound state of the viscera, strong purges and vomits one not to be ventured upon. In this case, the fater course it to palliage the symptoms by the use of such neglicines as promote the secretions, and to support the patient's thrength by warm and nourishing

cordials.

The fecretion of urine may be greatly promoted by nitre.—Brookes fays, he knew a young woman who was cured of a dropfy by taking a dram of nitre every morning in a draught of ale, after the had been given over as incurable. The powder of fquills is likewife a good directic. Six or eight grains of it, with a feruple of nitre, may be given twice a day in a glass of strong cinnamon water. Ball fays, a large spoonful of unbruised mustard seed taken every night and morning, and drinking half an English pint of the decoction of the tops of green broom after it, has performed a cure after other powerful medicines had proved inessection.

I have fometimes feen good effects from cream of tarfar in this difeafe. It promotes the difcharge by flool and urine, and will at least pulliate, if it does not perform a cure. The patient may begin by taking an ounce every second or third day, and may increase the quantity to two or even to three onness, if the stomach will bear it. This quantity however is not to be taken at once, but di-

vided into three or four dofes.

To promote perspiration, the patient may use the decection of fencka root, as directed above; or he may take two table-spoonfuls of Mindergrus's spirit in a cup of wine whey three or four times a day. To promote a discharge of urine, the following insusion of

the London hospitals will likewise be beneficial.

Take zedoary root two drams, dried fquills, rhubarb, and junt per berries bruifed, of each a dram; cinnamon in powder three drams; falt of wormwood a dram and a half; infuse in an English pint and a half of old hock wine, and when fit for use filter the liquor. A wine glass of it may be taken three or sour times a-day.

In the anafarca it is usual to scarify the feet and legs. By this means the water is often discharged; but the operator must be cautious not to make the incisions too deep: they ought barely to pierce

through the skin, and especial care must be taken, by spiritous fo-

mentations and proper digestives, to prevent a gangrene.

In an afcites, when the disease does not evidently and speedily give way to purgative and diurctic medicines, the water ought to be let off by tapping. This is a very simple and safe operation, and would often succeed, if it were performed in due time; but if it be delayed till the humours are vitiated, or the bowels spoiled, by long sometimes in water, it can hardly be expected that any permanent relief will be procured.\*

After the evocuation of the water, the patient is to be put on a course of strengthening medicines; as the Peruvian bark, the clixir of vitriol warm aromatics, with a due proportion of rhubarb, infeced in wine, and such like. His diet ought to be dry and nourishing, such as is recommended in the beginning of the chapter; and he should take as much exercise as he can bear without staigue. He should wear stannel, or rather sleecy hosiery next his skin, and make daily use of the sless-trush.

# CHAP. XXXVIII.

## OF THE GOUT.

THERE is no disease which shows the impersection of medicine, or sets the advantages of temperance and exercise in a stronger light, than the gout. Excess and idleness are the true sources from whence it originally sprung, and all who would avoid

it, must be active and temperate.

Though idleness and intemperance are the principal causes of the gout, yet many other things may contribute to bring on the disorder in those who are not, and to induce a paroxysm in those who are subject to it; as intense study; too free a use of acidulated liquors; night watching; grief or uncassness of mind; and obstruction or defect of any of the customary discharges, as the menses, sweating of the seet, perspiration, &c.

SYMPTOMS.—A fit of the gout is generally preceded by indigedion, drowliness, belching of wind, a flight head-uche, fickness, and sometimes vomiting. The patient complains of weari-

\* The very name of an operation is dreadful to most people, and they wish to try every thing before they have recourse to it. This is the reason why tapping so seld m succeeds to our wish. I had a patient who was regularly tapped once a month for several years, and who used to eat her dinner as well after the operation as if nothing had happened.—She died at last, rather worn out by ago than disease.

ness and dejection of spirits, and has often a pain in the limbs, with a sensation as if wind or cold water were passing down the thigh. The appetite is often remarkably keen a day or two before the sit, and there is a slight pain in passing urine, and frequently an involuntary sheding of tears. Sometimes these symptoms are much more violent, especially upon the near approach of the sit; and it has been observed, that as is the sever which ushers in the gout, so will the sit be; if the sever be short and sharp, the sit will be so likewise; if it be seedle, long, and lingering, the sit will be such alto. But this observation can only hold with respect to very regu-

lar fits of the gent.

The regular gout generally makes its attack in the spring, or beginning of winter, in the following manner: About two or three in the morning the patient is seized with a pain in his great tree-fometimes in the heel, and at other times in the ancle or calf of the leg. This pain is accompanied with a sensation as if cold water was poured upon the part, which is succeeded by a shivering, with some degree of sever. Afterwards the pain increases, and fixing among the small bones of the foot, the patient seels all the different kinds of terture, as if the part were stretched, burnt, squeezed, gnawed, or torn in pieces. The part at length becomes so exquisitely sensible, that the patient cannot bear to have it touched, or even suffer any person to walk across the room.

The patient is generally in exquisite torture for twenty-sour hours from the time of the coming on of the sit; he then becomes easier, the part begins to swell, appears red, and is covered with a little moisture. Towards morning he drops assep, and generally falls into a gentle breathing sweat. This terminates the first paroxysm, a number of which constitute a sit of the gent; which is longer or thorter according to the patient's age, strength, the season

of the year, and the disposition of the body to this disease.

The patient is always worse towards night, and easier in the morning. The paroxysms however generally grow milder every day, till at length the disease is carried off by perspiration, urine, and the other evacuations. In some patients this happens in a few days; in others, it requires weeks, and in some, months, to finish the fit. Those whom age and frequent fits of the gout have greatly debilitated, seldom get free from it before the approach of summer, and sometimes not till it be pretty far advanced.

REGIMEN.—As there are no medicines yet known that will cure the gout, we shall confine our observations chiefly to regimen,

both in and out of the fit.

In the fit, if the patient be young and firong, his diet ought to be thin and cooling, and his drink of a diluting nature; but where the conflitution is weak, and the patient has been accustomed to

live high, this is not a proper time to retrench. In this case, he must keep nearly to his usual diet, and should take frequently a cop of strong negats, or a glass of generous wine. Wine whey is a very proper drink in this case, as it promotes the perspiration without greatly heating the patient. It will answer this purpose better if a tea-spoonful of followlatile electron, or spirits of hartshorn, be put into a cup of it twice a day. It will likewise be proper to give at bed time a tea-spoonful of the volutile tinestore of quaiacum in a large draught of warm wine whey. This will greatly promote per-

fpiration through the night.

As the most safe and efficacious method of discharging the pouty matter is by perspiration, this ought to be kept up by all means, especially in the affected part. For this purpose the leg and foot should be wrapt in foft flannel, fur, or wool. The last is most readily obtained, and feems to answer the purpose better than any thing else. The people of Lancashire look upon wool as a kind of specific in the gout. They wrap a great quantity of it about the leg and foot affected, and cover it with a skin of fott dressed leather. This they fuffer to continue for eight or ten days, and fometimes for a fortnight or three weeks, or longer, if the pain does not cease. I never knew any external application answer so well in the gout .-I have often feen it applied when the swelling and inflamation were very great, with violent pain, and have found all these fymptoms relieved by it in a few days. The wool which they use is generally greafed, and carded or combed. They choose the toftest which can be had, and feldom or never remove it till the fi. be entirely gone off.

The patient ought likewise to be kept quiet and easy during the fit. Every thing that affects the mind; distribs the paroxysm, and tends to throw the gout upon the nobler parts. All external applications that repel the matter, are to be avoided as death. They do not cure the disease, but remove it from a safer to a more dangerous part of the body, where it often proves satal. A fit of the gout is to be considered as Nature's method of removing something that might prove destructive to the body; and all that we can do, with safety, is to promote her intentions, and to assist her in expelling the enemy in her own way. Evacuations by bleeding, stool, &c. are likewise to be used with caution; they do not remove the cause of the disease, and sometimes by weakening the patient, prolong the sit: But where the constitution is able to bear it, it will be of use to keep the body gently open by diet, or very mild laxative medi-

cines.

Many things will indeed shorten a fit of the gout, and some will drive it off altogether: But nothing has yet been found which will do this, with safety to the patient. In pain, we cagerly grasp

at any thing that promifes immediate case, and even hazard life itself for a temporary relief. This is the true reason why so many infallible remedies have been proposed for the gout, and why such numbers have lost their lives by the use of them. It would be as prudent to stop the small-pox from rising, and to drive them into the blood, as to attempt to repel the gouty matter after it has been thrown upon the extremities. The latter is as much an effort of Nature to free herself from an offending cause as the former, and ought equally to be promoted.

When the pain however is very great, and the patient is restless, thirty or forty drops of laudanum, more or less according to the violence of the symptoms, may be taken at bed time. This will case the pain, procure rest, promote perspiration, and forward

the crifis of the disease.

After the fit is over, the patient ought to take a gentle dose or two of the bitter tincture of rhubarb, or some other warm stomachic purge. He thould also drink a weak insussion of stomachic bitters in small wine or ale, as the Peruvian bark, with ciunamon, Virginian snake-root, and orange-peel. The diet at this time should be light, but nourishing; and gentle exercise ought to be ta-

ken on horseback, or in a carriage.

Out of the fit, it is in the patient's power to do many things towards preventing a return of the diforder, or rendering the fit, if it should return, help severe. This however is not to be attempted by medicine. I have frequently known the gout kept off for several years by the Peruvian bark, and other astringent medicines; but in all cases where I had occasion to see this tried, the persons died suddenly, and to all appearance, for want of a regular fit of the gout. One would be apt from hence, to conclude, that a fit of the gout, to some constitutions, in the decline of life, is rather salutary than hurtful.

Though it may be dangerous to stop a sit of the gout by medicine, yet if the constitution can be so changed by diet and exercise, as to lessen or totally prevent its return, there certainly can be so danger in following such a course. It is well known that the whole habit may be so altered by a proper regimen, as quite to cradicate this disease; and those only who have sufficient resolution

to perfift in such a course have reason to expect a cure.

The course which we would recommend for preventing the gout, is as follows: In the suffer place, universal temperance. In the next place sufficient exercise,\* by this we do not mean support

<sup>\*</sup> Some make a fearet of curing the most by mulcular exercise. This fearet, inwever, is as old as Cotons, who strongly recommends that

ing about in an indulent manner, but labour, fweat, and toil. These only can render the humours wholesome, and keep them so. Going early to bed and rising betimes, are also of great importance. It is likewise proper to avoid night studies, and intense thinking. The supper should be light, and taken early. All Groug liquors, especially generous wines and sour punch, are to be avoided.

We would likewise recommend some doses of magnesia alba and rhubarh to be taken every spring and autumn; and afterwards a course of stomachic bitters, as tansey or water-trefoil tea, an insussion of sentian and camomile flowers, or a decoction of burdock root, &c.. Any of these, or an insusion of any wholesome bitter that is more agreeable to the patient, may be drank for two or three weeks in March and October twice a-day. An issue or perpetual blister, has a great tendency to prevent the gour. If these were more generally used in the decline of life, they would not only often prevent the gout but also other chronic maladies. Such as can afford to go to Bath, will find great benefit from busing and drinking the water. It both promotes digestion, and invigorates the habit.

Though there is little room for medicine during a regular fit of the gont, yet when it leaves the extremities, and falls on fome of the internal parts, proper applications to recal and fix it, become abbility necessary. When the gout affects the head, the pain of the joints ceases, and the swelling disappears, while either severe head-ache, drowsiness, trembling, giddiness, convulsions, or delirium come on. When it seizes the lungs, great oppression, with cough and difficulty of breathing, ensue. If it attacks the stomach, extreme sickness, vomiting, anxiety, pain in the epigrastic region, and total loss of strength will succeed.

When the gont attacks the head or lungs, every method must be taken to fix it in the feet. They must be frequently bathed in warm water, and actid cataplasms applied to the foles. Blistering-plasters ought likewise to be applied to the ancles or calves of the legs. Bleeding in the feet or ancles is also necessary, and warm stomachic purges. The patient has a chance to be ever after tormented with head-aches, coughs, pains of the stemach and intestines; and to fall at last, a victim to its attack upon some of the

more noble parts.

OF THE RHEUMATISM.

This discare has often a resemblance to the gent. It gorerally attacks the joints with exquisite pain, and is sometimes attended

nude of ourse; and subsequentiall submit to it in the fullest extent, may expect to reap fellid and permanent advantages.

with inflamation and swelling. It is most common in the spring, and towards the latter end of autum. It is usually distinguished into acute and chronic; or the rheumatism with and without a fever.

CAUSES.—The causes of a rheumatism are frequently the same as those of an inflamatory sever, viz. an obstructed perspiration, the immoderate use of strong liquors, and the like. Sudden changes of the weather, and all quick transitions from heat to cold, are very apt to occasion the rheumatism. The most extraordinary case of a rheumatism that ever I saw, where almost every joint of the body was destorted, was a man that used to work one part of the day by the fire, and the other part of it in the water. Very obstinate rheumatisms have likewise been bro't on by persons not accustomed to it, allowing their seet to continue long wet. The same effects are often produced by wet clothes, damp beds, sitting or lying on the damp ground, travelling in the night, &c.

The rheumatism may likewise be occasioned by excessive evacuations, or the stoppage of customary discharges. It is often the effect of chronic discases, which viciate the humours; as the scurvy

the lues venerea, obstinate autumnal agues, &c.

The rheumatism prevails in cold, damp, marshy countries.—It is most common among the poorer fort of peasants, who are ill clothed, live in low damp houses, and eat coarse unwho'esome sood, which contains but little nourishment, and is not easily digested.

SYMPTOMS.—The acute rheumation commonly begins with weariness, shivering, a quick pulse, restrictions, third, and other symptoms of sever. Afterwards the patient complains of slying pains, which are increased by the least motion. These at length fix in the joints, which are often affected with swelling and inflamation. If blood be let in this disease, it has generally the same ap-

pearance as in the pleurify.

In this kind of rhoumatifin the treatment of the patient is nearly the same as in an acute inflammatory sever. If he be young and strong, bleeding is necessary, which may be repeated according to the exigencies of the case. The body likewise ought to be kept open by immollient elysters, or cool opening siquors; as decodiens of tamarinds, cream of tartar, whey, senna tea, and the like. The diet should be light, and in small quantity, consisting chiefly of roasted apples, groat-grewel, or weak chicken broth. After the feverish symptoms have abated, if the pain still continues the patient must keep his bed, and take such things as promote perspiration; as wine-whey, with spratus mindereri, &c. He may likewise take for a few nights, at bed-time, in a cup of wine-whey, a dram of the cream of tartar, and hair a dram of gum guaincum in pawd.c.

1 7

Warm bathings after proper evacuations, has often an exceeding good effect. The parient may either be pur into a bath of warm water, or have clothes wrung out of it applied to the part aff-field, G eatcare in it be taken that he do not catch cold af-

ter bathing.

The chronic thermatism is seldom attended with any considerable degree a tever, and a generally confined to some particular part of the body, as the thouseurs, the back, or the toins. There is seldom any influences or swelling in the case. Persons in the decline of life are most subject to the chronic rheamatism. In such patients it often proves exceeding obstinate, and sometimes incurable.

In this kind of rheumarism the regimen should be nearly the same as in the acute. Cool and diluting diet, confisting chiefly of vegetable substances, as stewed prunes, coddled apples, currants or gooseperies boiled in milk, is most proper. Arbuthnes, says, I statere be a specific in alliment for the rheumatism, it is certainly whey; and adds. That he know a person subject to this disease, who could never be cured by any other method but a diet of whey and bread." He likewise says, "That occam of tarter in watergreat taken so several days, will ease rheumatic pains considerably." This I have often experienced, but sound it always more estimations when joined with guin guaiacum, as already directed. In this castance patient may take the dose formerly mentioned, twice a day and I kewise a tea spoopful of the volatile tindure of gum guaiacum at hed time in wine-wiley.

This course may be continued for a week, or longer, if the case proves obstinate and the patient's strength will permit. It ought then to be emitted for a few days, and repeated again. At the same time leeches or a blistering platter may be applied to the part assembled. What I have generally found answer better than either of these, in obssinite fixed rheumatic pains is the warm plasser. I have likewise known a plasser of Burgundy pitch were for some time of the part assected, give great relief in rheumatic pains. My ingenious friend Dr. Alexander, of Edingburgh, says, he has frequently cured very obssinate rheumatic pains by subbing the parts affected with tinstance of cantharides. When the common tinstance did not succeed, he used it of a double or treble strength.—Cupping upon the part affected is likewise often very beneficial

and so is the application of leaches.

Though this disease may not seem to yield to medicines for sometime, yet they ought still to be persisted in. Persons who are subject to frequent returns of the rheumatism, will often find their account of using medicines, whether they be immediately effected with the disease or not. The chronic rheumatism is similar to the gour in this respect, that the most proper time for using medicines to extirpate it, is when the patient is most free from the disorder.

To those who can afford the expense I would recommed the warm baths of Buxton, or Matlock, in Derbyshire. These have often, to my knowledge, cured very obstinate rhoumatisms, and are always safe either in or out of the fit. When the rhoumatism is complicated with scorbuic complaints, which is not seldom the case, the Harrowgate waters, and those of Mossat, are proper.

They should be drank and used as a warm bath.

There are feveral of our domestic plants which may be used with advantage in the rhomatism. One of the best is the white mustard. A table-spoonful of the seed of this plant may be taken twice or thrice a day, in a glass of water or small wine. The water trefoil is likewise of great use in this complain. It may be insused in wine or ale, or drank in form of tea. The ground ity, camomile, and several other bitters, are also beneficial, and may be used in the same manner. No benefit, however, is to be expected from these, unless they be taken for a considerable time. Excellent medicines, are often despited in this disease, because they do not perform an immediate cure; whereas nothing would be more certain than their effect, were they doly persisted in. Want of perseverance in the use of medicines is one reason why chronic diseases are so selden cured.

Cold bathing, especially in falt water, often cures the rhoumatism. We would also recommend exercise, and wearing stantal next the skin. Issues are likewise very proper, especially in chronic cases. If the pain affects the shoulders, an issue may be made in the arm: but if it affects the loins, it should be put into the leg or thigh.

Perfons afflicted with the scurvy are very subject to rheumatic complaints. The best medicines in this case are bitters and mild purgatives. These may either be taken separately or together, as the patient inclines. An ounce of Peruvian bark, and half an ounce of rhubarb in powder, may be insufed in a bottle of wine, and one, two, or three wine glasses of it be taken daily, as shall be found necessary for keeping the body gently open. In cases where the back itself proves sufficiently purgative, the rhubarb may be omitted.

Such as are subject to frequent attacks of the rheumatism ought to make choice of a dry, warm situation, to avoid the night-air, wet clothes and wet feet, as much as possible. Their clothing should be warm, and they should wear shannel next their skin, and make frequent use of the state.

# C H A P. XXXIX. OF THE SCURVY.

THIS disease prevailes chiefly in cold nothern countries, especially in low damp situations, near large marshes, or great quantities of stagnating water. Sedentary people, of a dull melancholy disposition, are most subject to it. It proves often satal to sailors on long voyages, particularly in ships that are not properly ventilated, have many people on board, or where cleanliness is neglected.

It is not necessary to mention the different species into which this disease has been divided, as they differ from each other chiefly in degree. What is called the land securely, however, is settled attended with those high putrid symptoms which appear in patients who have been long at sea, and which we presume, are rather owing to confined air, want of excercise, and the unwholesome food eaten by sailors on long voyages, than to any specific difference in the

disease.

CAUSES.—The scurve is occasioned by cold moist air; by the long use of salted or smoak-dried provisions, or any kind of food that is hard of digestion, and affords little nourishment. It may also proceed from the suppression of customary evacuations; as the menses, the hamorrhoidal flux, &c. It is sometimes owing to a hereditary taint, in which case a very small cause will excite the latent disorder. Grief, sear, and other depressing passions, have a great tendency both to excite and aggravate this disease. The same observation holds with regard to neglect of cleanlines; bad clothing; the want of proper exercise; consined air; unwholesome tood; or any disease that greatly weakens the body, or vitiates the humors.

SYMPTOMS.—This disease may be known by unusual weariness, heaviness, an difficulty of breathing, especially after motion; rottenness of the gums, which are apt to bleed on the slightest touch; a stinking breath; frequent bleeding at the nose; crackling of the joints; difficulty of walking; sometimes a swelling and sometimes a falling away of the legs, on which there are livid, vellow, or violet colored spots; the face is generally of a pale or leaden color. As the disease advances, other symptoms come on; as rottenness of the teeth, hamorrhages, or discharges of blood from different parts of the body, soul obstinate ulcers, pain in various parts, especially about the breast, dry scaly eruptions all over the body, &c. At last a wasting or hectic sever comes on, and the miserable patient is often carried off by a dysentery, a diarrhoca, a

dropfy, the pally, fainting fits, or a mortification of fome of the bowels.

CURE.—We know of no way of curing this disease but by pursuing a plan directly opposite to that which brings it on. It proceeds from a vitiated state of the humours, occasioned by errors in diet, air, or exercise; and this cannot be removed but by a pro-

per actention to these important articles.

If the patient has been obliged to breathe a cold, damp, or confined air, he should be removed, as soon as possible, to a dry. open, and moderate warm one. If there is reason to believe that the disease proceeds from a sedentary life, or depressing passions, as grief, tear, &c. the patient must take daily as much exercise in the open air as he can bear, and his mind should be diverted by chearful company and other amusements. Nothing has a greater tendency either to prevent or remove this disease, than constant cheerful ness and good humour. But this, alas! is seldom the lot of persons afflicted with the scurvy; they are generally surly, peevish, and morose.

When the scurvy has been brought on by a long use of salted provisions, the proper medicine is a diet consisting chiefly of fresh vegetables; as oranges, apples, lemons, limes, tamarinds, watercress, scurvy-grass, brook-lime, &c. The use of these, with milk, pot-herbs, new bread, and fresh beer or cider, will seldom fail to remove a scurvy of this kind, if taken before it be too far advanced; but to have this effect, they must be persisted in for a considerable time. When fresh vegetables cannot be obtained, pickled or preserved ones may be used; and where these are wanting, recourse must be had to the chymical acids. All the patient's food and drink should in this case be sharpened with cream of tar-

tar, clixir of vitriol, vinegar, or the spirit of sea-falt.

These things, however, will more certainly prevent than cure the source; for which reason sea-faring people, especially on long voyages, ought to lay in plenty of them. Cabbages, onions, goose-berries, and many other vegetables, may be kept a long time by pickling, preserving, &c. And when these fail, the chymical acids, recommended above, which will keep for any length of time, may be used. We have reason to believe, if ships were well ventilated, had good store of fruits, greens, cider, &c. laid in, and if proper regard be paid to cleanliness and warmth, that sailors word is be the most healthy people in the world, and would solden suffer either from the seurcy or putrid severs, which are so faial to that insest fet of men; but it is too much the temper of such people to despite ail precaution; they will not think of any calamity tid it overtakes them, when it is too late to ward off the blow.

It must indeed be owned, that many of them have it not in their power to make the provision we are speaking of; but in this case it is the duty of their employers to make it for them; and no menought to engage in a long voyage without having these articles secured.

I have often seen very extraordinary effects in the land-scurvy from a milk diet. This preparation of nature is a mixture of animal and vegetable properties, which of all others, is the most fit for restoring a decayed constitution, and removing, that particular acrimony of the humours, which seems to constitute the very effence of the scurvy, and many other diseases. But people despite this wholesome and nourishing food, because it is cheap, and devour with greediness, flash, and fermented liquors, while milk is only

deemed fit for hogs.

The most proper drink in the scurvy is whey or butter-milk.— When these cannot be had, sound cider, perry, or spruce-beer, may be used. Wort has likewise been found to be a proper drink in the scurvy, and may be used at sea, as malt will keep during the longest voyage. A decoction of the tops of the spruce fir is likewise proper. It may be drank in the quantity of an Eaglish pint twice a day. Tar water may be used for the same purpose, or decoctions of any of the mild mucilaginous vegetables; as sansaparilla, marshmallow roots, &c. Insusions of the bitter plants, as ground ivy, the lesser centaury, marsh-tresoil, &c. are likewise beneficial. I have seen the peasants in some parts of Britain express the juice of the last mentioned plant, and drink it with good effect in those foul scorbutic cruptions with which they are often troubled in the spring season.

Harrowgate water is certainly an excellent medicine in the landfeurvy. I have often feen patients who have been reduced to the most deplorable condition by this disease, grantly relieved by drinking the sulphur water, and bathing in it. The challybeate water may also be used with advantage, especially with a view to brace the stomach after drinking the sulphur water, which, though it sharpens, the appetite, never fails to weaken the powers of di-

gestion.

A flight degree of feurry may be carried off by frequently ficking a little of the juice of a bitter orange, or a lemon. When the difease affects the gums only, this practice, it continued for some time, will generally corry it off. We would however recommends the bitter orange as greatly preferable to lemon; it seems to be as good a medicine, and is not near so huntful to the stomach. Perhaps our own forcel may be little inserior to either of them.

All kinds of failed are good in the scurvy, and ought to be eaten very plentifully, as spinnage, lettuce, particy, celery, endive, radish,

dandslien, &c.

It is amazing to fee how from fresh vegetables in the spring, cure the brute animals of any sab or foundes which is upon their skins. It is reasonable to suppose that their effects would be as great upon the human species, were they used in proper quantity

for a lufficient length of time.

I have fometimes feen good effects in scorbutic complaints of very long standing, from the use of a decoction of the roots of water-dock. It is usually made by boiling a pound of the fresh root in six English pints of water, till about one third of it be consumed. The dose is from half a pint to a whole pint of the decoction every day. But in all the cases where I have seen it prove beneficial, it was made much stronger, and drank in larger quantities. The safest way, however, is for the patient to begin with small doses, and increase them both in strength and quantity as he finds his stomach will bear it. It must be used for a considerable time. I have known some take it for many months, and have been told of others who had used it for several years, before they were sensible of any benefit, but who nevertheles were cured by it at length.

The leprofy, which was so common in this country long ago, seems to have been near a-kin to the servey. Perhaps it appearing so seldom now, may be owing to the inhabitants of Britain eating more vegetable food than formerly, living more upon tea and other diluting diet, using less salted meat, being more cleanly, better lodged and clothed, &c. For the cure of this disease we would recommend the same course of diet and medicine as in

the fcurvy.

#### OF THE SCROPHULA, OR KING'S EVIL.

This defrace chiefly affects the glands, especially those of the neck. Children and young persons of a sedentary life are very sabject to it. It is one of those diseases which may be removed by proper regimen, but soldom yields to medicine. The inhabitants of cold, damp, marshy countries are most liable to the

scrophula.

CAUSES.—This difease may proceed from a hereditary taint, from a scrophulous nurse, &c. Children who have the missortune to be born of sickly parents, whose constitutions have been greatly injured by the pox, or other chronic diseases, are apt to be affected with the scrophula. It may likewise proceed from such diseases as weaken the habit or vitiate the humors, as the small-pox, measses, &c. External injuries, as blows, bruises, and the like, sometimes produce scrophulous ulcers; but we have reason to believe, when this happens, that there has been a predisposition in the habit to this disease. In short, whatever

tends to vitiate the humors or relax the folids, paves the way to the ferophula; as the want of proper exercise, too much heat or cold, confined air, unwholeson, e food, bad water, the long use of poor, weak, watery aliment, the neglect of cleanliness, &c.— Nothing tends more to induce this disease in children than al-

lowing them to continue long wet\*.

SYMPTOMS.—At first finall knots appear under the chip or behind the ears, which gradually increase in number and fize, till they form one large hard tumour. This often continues for a long time without breaking, and when it does break, it only discharges a thin sames, or watery humor. Other the set of the body are sometimes liable to its attack, as the arm pits, groins, seet, hands, eyes, breast, &c. Nor are the internal parts exempt from it. It often affects the lungs, liver, or spleen; and I have frequently seen the glands of the mysentery greatly enlarged by it.

Those obstinate ulcers which break out upon the feet and hands with swelling, and little or no redness, are not of the scrophulus kind. They seldom discharge good matter, and are exceedingly difficult to cure. The white swellings of the joints seem likewise to be of this kind. They are with difficulty brought to a suppuration, and when opened they only discharge a thin ichor. There is not a more general symptom of the scorphula than a swelling of

the upper lip and nose.

REGIMEN.—As this disease proceeds, in a great measure, from a relaxation, the diet ought to be generous and nourishing, but at the same time light and of easy digestion; as well-fermented bread, made of sound grain, the sless hand broth of young animals, with now and then a glass of generous wine, or good ale. The sir ought to be open, dry, and not too cold, and the patient should take as much exercise as he can bear. This is of the utmost importance. Children who have sufficient exercise are seldom troubled with the scrophula.

MEDICINE.—The vulgar are remarkably credulous with regard to the cure of the ferophula; many of them believing in the virtue of the royal touch, that of the feventh for, &c. The truth is, we know but little either of the nature or cure of this difease, and where reason or medicines fail, superstition always comes in their place. Hence it is, that in diseases which are the most difficult to understand, we generally hear of the greatest number of miraculous cures being performed. Here, however,

<sup>\*</sup> The scrophula, as well as the rickets, is found to prevail in large manufacturing towns, where people live gress, and lead seven-tury lives.

the deception is easily accounted for. The scrophule, at a certain period of life, often cures of itself; and if the patient happens to be touched about this time, the cure is imputed to the touch, and not to Nature, who is really the physician. In the same way the infignificant nostrums of quacks and old women often gain applause

what they deferve none.

There is nothing more pernicious than the custom of plying children in the scrophula with strong purgative medicines. People imagine that it proceeds from humors which must be purged off, withou, considering that these purgatives increase the debility and aggravate the disease. It has indeed been found, that keeping the body gently open for some time, especially with sea-water, has a good effect; but this should only be given in gross habits, and in such quantity as to procure one, or at most two stools ever day. Bathing in the salt water has likewise a very good effect, especially in the warm season. I have often known a course of bathing in salt water, and drinking it in such quantities as to keep the body gently open, cure a scrophula, after many other medicines had been tried in vain. When salt water cannot be obtained, the patient may be bathed in fresh water, and his body kept open by small quantities of salt and water, or some other mild purgative.

Next to cold bathing, and drinking the falt water, we would recommend the Peruvian bark. The cold bath may be used in summer and the bark in winter. To an adult half a dram of the bark in powder may be given in a glass of red wine four or five times a day. Children, and such as cannot take it in substance,

may use the decoction made in the following manner:

Boil an ounce of Peruvian bark and a dram of Winter's bark, both grossly powdered, in an English quart of water to a pint; towards the end, half an ounce of fliced liquorize root, and a handful of raisins may be added, which will both, ren r the decoction less disagreeable, and make it take up more of the bark. The tiquor must be strained, and two, three, or four table-spoonfuls, according to the age of the patient, given three times a day.

The Moffat and Harrowgate waters, especially the latter, are likewise very proper medicines in the scrophula. They ought not however, to be drank in large quantities, but spend be taken so as to keep the body gently open, and must be lated for a confiderable

time.

The hombook may femetimes be used with advantage in the scrophula. Some lay it down as a general rule, that the sea-water is in the proper before there are any suppuration or symptoms of table—the Peruvian bark, when there are running sores, and a degree of heetic fever; and the hemlock in old inveterate cases, approaching to the scirculus or cancerous state. Either the extract or the fresh

juice of the plant may be used. The dose may be small at first, and increased gradually as far as the stomach is able to bear it.

External applications are of little use. Before the tumor breaks, nothing ought to be applied to it, unless a piece of slannel, or something to keep it warm. After it breaks, the fore may be dressed with some digestive ointment. What I have always found to answer best, was the yellow basilicon mixed with about a fixth or eighth part of its weight of red precipitate of mercury. The sore may be dressed with this twice a-day; and if it be very sungous, and does not digest well, a larger proportion of the precipitate may be added.

Medicines which traitigate this disease, though they do not cure it, are not to be despised. If the patient can be kept alive by any means till he arrives at the age of puberty, he has a great chance to get well; but if he does not recover at this time, in all probablity

he never will.

There is no malady which parents are so apt to communicate to their offspring as the scrophula, for which reason people ought to beware of marrying into families affected with this disease.

For the means of preventing the scrophula, we must refer the reader to the observations on nursing at the beginning of the book.

#### OF THE ITCH.

Though this difease is commonly communicated by infestion, yet it seldom prevails where due attention is paid to cleanlines, fresh air, and wholesome diet. It generally appears in form of small watery pushules, first about the wrists, or between the singers; asterwards it affects the arms, legs, thighs, &c. These pushules are attended with an intolerable itching, especially when the patient is warm in bed, or sits by the fire. Sometimes indeed the skin is covered with large blotches or scabs, and at other times with a white scurf, or scaly eruption. This last is called the dry itch, and is the most difficult to core.

The itch is seldom a dangerous disease, unless when it is rendered so by neglect or improper treatment. If it be suffered to continue too long, it may vittate the whole mass of humors; and, if it be suddenly drove in, without proper evacuations, it may occasion severe, inflamation of the viscera, or other internal differers.

The best medicine yet known for the itch is sulphur, which, ought to be used both externally and internally. The parts most affected may be rubbed with an ointment made of the flour of sulphur, two ounces, crude of sal ammoniac finely powdered two drams, hog's lard, or butter, sour ounces. It a scruple or half a dram of the effence of lemmon be added, it will entirely take away the disagreeable smell. About the bulk of a nutmeg of this may

rubbed upon the extremities at bed time twice or thrice a-week. It is feldom necessary to rub the whole bedy; but when it is, it ought not to be done all at once, but by turns, as it is dangerous to stop

too many pores at the same time.

Before the patient begins to use the ointment, he ought, if he be of a full habit, to bleed or take a purge or two. It will likewise be proper, during the use of it, to take every night and morning as much of the flour of brimstone and cream of tartar, in a little treacle or new milk, as will keep the body gently open. He should beware of catching cold, should wear more clothes than usual, and take every thing warm. The same clothes the linen excepted, ought to be worn all the time of using the ointments; and such clothes as have been worn while the patient was under the disease, are not to be used again, unless they have been sumigated with brimstone, and thoroughly cleansed, otherwise they will communicate the infection anew\*.

I never knew brimstone, when used as above, sail to cure the itch; and I have reason to believe, that, if duly persisted in, it never will sail, but if it be only used once or twice, and cleanliness neglected, it is no wonder if the disorder returns. The quantity of ointment mentioned above will generally be sufficient for the cure of one person; but, if any symptoms of the disease should appear again, the medicine must be repeated. It is both more safe and efficacious when persisted in for a considerable time, than when a large quantity is applied at once. As most people dislike the smell of sulphur, they may use in its place the powder of white hellebore root, made up into an ointment in the same manner, which will seldom sail to cure the itch.

People ought to be extremely cautious lest they take other eruptions for the itch; as the stoppage of these may be attended with satal consequences. Many of the eruptive disorders to which children are liable, have a near resemblance to this disease; and I have often known infants killed by being rubbed with greasy ointments that made these eruptions strike suddenly in, which Nature had thrown out to preserve the patient's life, or prevent some other malady.

Much mischief is likewise done by the use of mercury in this disease. Some persons are so sool-hardy as to wash the parts affect-

<sup>\*</sup> Sir John Pringle observes, that though this disease may seem tristing, there is no one in the army that is more troublesome to cure, as the infection often lurks in clothes, Sc. and breaks out a second, or even a third time. The same inconveniency occurs in private families, unless particular regard is paid to the changing or cleansing of their elethos, which last is by no means an easy operation.

ed with a strong solution of the corrosive sublimate. Others use the mercurial cintment, without taking the least care either to avoid cold, keep the body open, or preserve a proper regimen. The confequences of such conduct may be easily guessed. I have known even the mercurial girdles produce bad effects, and would advise every person, as he values his health, to bevere how he uses them. Mercury ought never to be used as a medicine without the greatest care. Ignorant people look upon these girdles as a kind of charm, without considering that the mercury enters the body.

It is not to be told what mischief is done by using mercurial oin tment for curing the itch and killing vermin; yet it is unccessary for either; the former may be always more certainly cured by sulphur, and the latter will never be found where due attention is paid

to cleanliness.

Those who would avoid this detestable disease ought to beware of infected persons, to use wholesome food, and to study universal cleanlings.

#### C H A P. XL.

#### OF THE ASTHMA.

THE assume is a disease of the lungs, which seldom admits of a cure. Persons in the decline of life are most liable to it.—
It is distinguished into the moist and dry, or humoral and nervous.
The former is attended with expector ation or spitting; but in the latter the patient seldom spits, unless sometimes a little tough

phlegm by the mere force of coughing.

CAUSÉS.—The althma is sometimes hereditary. It may like-wise proceed from a bad formation of the breast; the sumes of metals or minerals taken into the lungs; violent exercise especially running; the obstruction of customary evacuations, as the menses, hamorrhoids, &c. the sudden retrocession of the gout, or striking in of eruptions, as the small-pox, measles, &c. violent passions of

\*The itch is now by cleanliness banished from every genteel family in Britain. It still however prevails among the poorer fort of peasants in Scotland, and among the manufacturers in England. These are not only sufficient to keep the seeds of the disease alive, but to spread the infection among others. It were to be wifted that some effectual method could be devised for extirpating it altogether. Several country clergymen have told the, that by geting such as were infected cured, and strongly recommending an attention to cleanliness, they have banished the itch entirely out of their parishes. We younght not others do the same?

the mind, as sudden sear or surprise. In a word, the disease may proceed from any cause that either impedes the circulation of the blood through the lungs, or prevents their being duly expanded by the air.

SYMPTOMS.—An afthma is known by a quick, laborious breathing, which is generally performed with a kind of wheezing noise. Sometimes the difficulty of breathing is so great, that the patient is obliged to keep in an erect posture, otherwise he is in danger of being sufficiented. A fit or paroxysm of the asthma generally happens after a person has been exposed to cold easterly, winds, or has been abroad in thick soggy weather, or has got wet, or continued long in a damp place under ground, or has taken some food which the stomach could not digest, as pastries, toasted cheese, or the like.

The paroxysm is commonly ushered in with listlessness, went of sleep, hearsenss, a cough, belching of wind, a sense of heaviness about the breast, and difficulty of breathing. To these succeed heat, sever, pain of the head, sickness and nausea, great oppression of the breast, palpitation of the heart, a weak and sometimes intermitting pulse, an involuntary flow of tears, bilious vomitings, &c. All the symptoms grow worse towards night; the patient is easier

when up than in bed, and is very defirous of cool air.

REGIMEN.—The food ought to be light, and of easy digestion. Boiled meas are to be preferred to roasted, and the stell of young animals to that of old. Windy food and whatever is apt to swell in the stomack is to be avoided. Light puddings, white broths, and ripe fruits baked, boiled, or roasted, are proper. Strong liquors of all kinds, especially malt-liquor, are hurtful. The patient should eat a very light supper, or rather none at all, and should never suffer himself to be long costive. His clothing should be warm especially in the winter season. As all disorders of the breast are much relieved by keeping the seet warm, and promoting the perspiration, a stannel shirt or waistcoat, and thick shoes, will be of singular service.

But nothing is of so great importance in the assume as pure and moderately warm air. Althmatic people can seldom bear either the close heavy air of a large town, or the sharp keen atmosphere of a bleck hilly country: a medium therefore between these is to be chosen. The air near a large town is often better than at a dislance, provided the patient be removed so far as not to be affected by the smoke. Some assume patients indeed breathe easier in town than in the country: but this is seldom the case, especially in towns where much coal is burnt. Assume persons who are obliged to be in town all day, ought at least to keep out of it. Even this will often prove of great service. Those who can assor it ought to tra-

vel into a warmer climate. Many afthmatic persons who cannot live in Britain, enjoy very good health in the south of France, Por-

tugal, Spain, or Italy.

Exercise is likewise of very great importance in the assuma, as it promotes the digestion, and preparation of the blood. The blood of assumatic persons is seldom duly prepared, owing to the proper action of the lungs being impeded. For this reason such people ought daily to take as much exercise, either on foot, horseback, or

in a carriage, as they can bear.

MEDICINE.—Almost all that can be done by medicine in this disease, is to relieve the patient when seized with a violent fit .--This indeed requires the greatest expedition, as the disease onten proves suddenly fatal. In the paroxysin or fit, the body is generally bound; a purging clyfter, with a folution of anafætida, ought therefore to be administered, and if there be occasion, it may be repeated two or three times. The patient's feet and legs ought to be immersed in warm water, and afterwards rubbed with a warm hand, or dry cloth. Bleeding, unless extreme weakness or old age should forbid it, is highly proper. If there be a violent spasm about the breast or stomach, warm fomentations, or bladders filled with warm milk and water, may be applied to the part affected; and warm cataplasms to the soles of the feet. The patient must drink freely of diluting liquors, and may take a tea-spoonful of the tincture of castor and of saffron mixed together, in a cup of valerian tea, twice or thrice a-day. Sometimes a vomit has a very good effect, and fnatches the patient, as it were, from the jaws of death. This however will be more fafe after other evacuations have been premifed. A very strong infusion of roasted costee is said to give eafe in an asthmatic paroxysm.

In the moist asthma, such things as promote expectoration or spitting ought to be used; as the syrup of squills, gum ammoniac, and such like. A common spoonful of the syrup, or oxymel of squills, mixed with an equal quantity of cinnamon-water, may by taken three or four times through the day, and sour or sive pills made of equal parts of asafectida and gum ammoniac at bed

ime.\*

For the convultive or nervous afthma, antispasimodics and bracers are the most proper medicines. The patient may take a tea-

\* After copious evacuations, large doses of ather have been found very efficacious in removing a fit of the assima. I have likewise known the sollowing mixture produce very happy effects: to four or five ounces of the solution or milk of gum-ammoniae add two ounces of simple cinnumonwater, the same quantity of balfamic syrup, and half an ounce of paregoric elixir. Of this two table-spoonfuls may be taken every three hours

spoonful of the paregoric elixir twice a day. The Peruvian bark is sometimes found to be of use in this case. It may be taken in substance, or insused in wine. In short, every thing that braces the nerves, or takes off spasin, may be of use in a nervous asthma. It is often relieved by the use of ass's milk; I have likewise known cow's milk drank warm in the morning, have a very good effect in this case.

In every species of asthma, setons and issues have a good effect; they may either be set in the back or side, and should never be allowed to dry up. We shall here, once for all, observe, that not only in the asthma, but in the most chronic diseases, issues are extremely proper. They are both a safe and efficacious remedy; and though they do not always cure the disease, yet they will often prolong the patient's life.

#### CHAP. XLI.

### OF THE APOPLEXY.

THE apoplexy is a sudden loss of sense and motion, during which the patient is to all appearance dead; the heart and lungs, however, still continue to move. Though this disease proves often satal, yet it may sometimes be reved by proper care. It chiefly attacks sedentary persons of a gross habit, who use a rich and plentiful diet, and indulge in strong liquors. People in the decline of life are most subject to the apoplexy. It prevails most in winter, especially in rainy seasons, and very low states of the barometer.

CAUSES.—The immediate cause of an apoplexy is a compression of the brain, occasioned by an excess of blood, or a collection of watery humors. The former is called a sanguine, and the latter a serous apoplexy. It may be occasioned by any thing that increases the circulation towards the brain, or prevents the return of the blood from the head; as, intense study; violent passions\*; viewing objects for a long time obliquely; wearing

<sup>\*</sup> I knew a woman who in a violent fit of anger was scized with a sanguine apoplexy. She at first complained of entreme pain, as if daggers had been thrust through her head, as she expressed it. Ifterwards she became comatese, her pulse sunk very low, and was exceeding slow. By bleeding, blistering, and other evacuations, she was kept alive for about a sortnight. When for head was opened, a large quantity of extravasated blood was sound in the left ventricle of the brain.

any thing too tight about the neck; a rich and lexurious die; fuppression of urine; suff ring the body to cool suddenly, after having been greatly heated; continuing long in a warm or a cold bath; the excessive use of spiceries, or high seasoned tood; excess of venery; the sudden striking in of any eruption; suffering issue, setons, &c. suddenly to dry up, or the stopage of any customary evacuation; a mercurial salivation pushed too far, or suddenly checked by cold; wounds or bruises on the head; I ng expession to excessive cold; poisonous exhalations, &c.

SYMPTOMS, and method of cure.—The usual ferenumers of an apoplexy are giddiness, pain and swimming of the head; loss of memory; drowsiness; noise in the ears; the night-mare; a spontaneous flux of tears, and laborious respiration. When persons of an apoplectic make observe these symptoms, they have reason to fear the approach of a fit, and should endeavour to pre-

vent it by bleeding, a flender diet, and opening medicines.

In the languine apoplexy, if the patient does not die suddenly, the countenance appears florid, the face is swelled or puffed up, and the blood-vessels, especially about the neck and temples, are turgid; the pulse beats strong; the eyes are prominent and fixed, and the breathing difficult, and performed with a snorting noise. The excrements and urine are often voided spontaneously, and the

patient is fometimes feized with vomiting.

In this species of apoples, every method must be taken to lessent the force of the circulation towards the head. The patient should be kept perfectly easy and cool. His head should be raised pretty high, and his feet suffered to hang down. His clothes ought to be loosened, especially about the neck, and fresh air admitted into his chamber. His garters should be tied pretty tight, by which means the motion of the blood from the lower extremities will be retarded. As soon as the patient is placed in a proper posture, he should be bled freely in the neck, or arm, and, if there be occasion, the operation may be repeated in two or three hours. A laxative clyster, with plenty of sweet oil, or fresh butter, and a spoonful or two of common salt in it, may be administered every two hours; and blistering plasters applied between the shoulders, and to the calves of the legs.

As foon as the fymptoms are a little abated, and the patient is able to swallow, he ought to drive freely of some diluting opening liquor, as a decoction of tamarinds and liquorice, cream tartar whey, or common whey, with cream of tartar dissolved in it. Or he may take any cooling purge, as Glauber's falt, manne dissolved in an infusion of senna, or the like. All spirits, and other strong liquors, are to be avoided. Even volatile salts, held to the nose, de-

mischief. Vomits, for the same reason, ought not to be given, or any thing that may increase the motion of the blood towards the head.

In the serous apoplexy, the symptoms are nearly the same, only the pulse is not so strong, the countenance is less florid, and the breathing less dissicult. Bleeding is not so necessary here, as in the former case. It may, however, generally be performed once with safety and advantage, but should not be repeated. The patient should be placed in the same posture as directed above, and should have blistering plasters applied, and receive opening clysters in the same manner. Purges here are likewise necessary, and the patient may drink strong balm-tea. If he be inclined to sweat, it ought to be promoted by drinking small wine-whey, or an infusion of carduus benedictus. A plentiful sweat kept up for a considerable time, has often carried off a serous apoplexy.

When apoplectic fymptoms proceed from opium, or other narcotic fubliances taken into the itomach, vomits are necessary. The patient is generally relieved as foon as he has discharged the poison

in this way.

Perfons of an apoplectic make, or those who have been attacked by it, ought to use a very spare and slender diet, avoiding all strong liquors, spiceries, and high seasoned food. They ought likewise to guard against all violent passions, and to avoid the extremes of heat and cold. The head should be shaved, and daily washed with cold water. The feet ought to be kept warm, and never suffered to continue long wet. The body must be kept open either by food or medicine, and a little blood may be let every spring and fall.—Exercise should by no means be neglected; but it ought to be taken in moderation. Nothing has a more happy effect in preventing an apoplexy, than perpetual issues or fetons; great care however must be taken not to suffer them to dry up, without opening others in their stead. Apoplectic persons ought never to go to rest with a full stomach, or to lie with their heads low, or wear any thing too tight about their necks.

#### CHAP. XLII.

# OF COSTIVENESS, AND OTHER AFFECTIONS OF THE STOMACH AND BOWELS.

Edo not here mean to treat of those astrictions of the bowels which are the symptoms of diseases, as of the choic, the iliac passion, &c. but only to take notice of that infrequency of stools

which fometimes happens, and which in fome particular conflitu-

tions may occasion difeases.

Costiveness may proceed from drinking rough red wines, or other astringent liquors; too much exercise, especially on horseback. It may likewise proceed from a long use of cold insipid food, which does not sufficiently stimulate the intestines. Sometimes it is owing to the bile not descending to the intestines, as in the joundice; and at other times it proceeds from diseases of the intestines themselves, as a palfy, spasms, torpor, tumors, a cold dry state of the intestines, &cc.

Excessive costiveness is apt to occasion pains of the head, vemiting, choices, and other complaints of the bowels. It is peculiarly hurtful to hypocondriac and hysteric persons, as it generates wind, and other grievous symptoms. Some people, however, can bear costiveness to a great degree. I know persons who carry pretty good health, yet do not go to stool above once a week, and others not above once a fortnight. Indeed, I have heard of some who did

not go above once a month.

Persons who are generally costive, should live upon a mostlening and laxative dict, as roasted or boiled apples, pears, stewed prunes, raisins, gruels, with currants, butter, honey, sugar, and such like. Broths with spinage, leeks, and other soft pot-herbs, are likewise proper. Rye bread, or that which is made of a mixture of wheat and rye together, ought to be eaten. No person troubled with costiveness should eat white bread alone, especially that which is made of fine flour. The best bread for keeping the body soluble is what in some parts of England they call messin. It is made of a mixture of wheat and rye, and is very agreeable to those who are accustomed to it.

Custiveness is increased by keeping the body too warm, and by every thing that promotes the perspiration; as wearing stannel, lying too long in bed, &c. Intense thought, and a sedentary life, are likewise hurtful. All the secretions and excretions are promoted by moderate exercise without doors, and by a gay, chersul, sprightly

temper of mind.

The drink should be of an opening quality. All ardent spirits, austere and astringent wines, as port, claret, &c. ought to be avoided. Malt liquor that is fine, and of a moderate strength, is very proper. Butter-milk, whey, and other watery liquous, are likewise proper, and may be drank in turns, as the patient's inclination directs.

Those who are troubled with costiveness, ought, if possible, to remedy it by diet, as the constant use of medicines for that purpose is attended with many inconveniencies, and often with bad conse-

quences. I never knew any one get into a habit of taking medicines for keeping the body open, who could leave it off. In time the custom becomes necessary,, and generally ends in a total relaxation of the bowels, indigestion, want of appetite, wasting of the

strength, and death.

When the body cannot be kept open without medicine, we would recommend gentle doses of rhubarb to be taken twice or thrice a week. This is not near so injurious to the stomach as aloes, jalap, or the other drastic, purgatives so much in use. Insusions of senna and manna may likewise be taken, or half an ounce of soluble tartar dislowed in water-gruel. About the size of a nutmeg of lenitive electuary taken twice or thrice a day generally answers the purpose very well.

#### WANT OF APPETITE.

This may proceed from a foul stomach, indigestion; the want of free air and exercise; grief; scar; anxiety; or any of the depressing passions; excessive heat; the use of strong broths, fat meats, or any thing that palls the appetite, or is hard of digestion, the immoderate use of strong siquors, tea, tobacco, opium, &c.

The patient ought, if possible, to make choice of an open dry air; to take exercise daily on horseback, or in a carriage; to rise becomes; and to avoid all intense thought. He should use a diet of easy digestion; and should avoid excessive heat and great sa-

tigue.

If want of appetite proceeds from errors in diet, or any other

\*The learned Dr. Arbuthnot advises these who are troubled with costiveness to use annual oils, as fresh butter, eream, marrow, fat broths, especially these made of the internal parts of animals, as the liver, heart, midriff, &c. He likewise recommends the expressed oils of mild vegetables, as olives, almonds, passaches, and the fruits themselves; all oily and mild fruits, as sigs, decoctions of mealy vegetables; these lubricate the intestines; some superaceous substances which simulate gently, as honey, hydremel, or boiled honey and water, unrefined sugar, &c.

The doctor observes, that such lenitive substances are proper for perfons of dry atrabilarian constitutions, who are subject to appriction of the belly, and the piles, and will operate when stronger medecinal substances are sometimes ineffectual; but that such lenitive diet hurts those whose bowels are weak and lax. He likewise observes, that all waters substances are lenitive, and that common water, whey, four milk and butter-milk, have that effect; That new milk, especially assessmilk, stimulates still more when it sours on the slomach; and that whey turned four will purge strongly. part of the patient's regimen, it ought to be changed. If nausea and reachings show that the stomach is leaded with crudities, a voruit will be of service. After this, a gentle purge or two of rhubarb, or any of the bitter purging salts may be taken. The patient ought mext to use some of the stomachic bitters insused in wine. Though gentle evacuations be necessary, yet strong purges and vomits are to be avoided, as they weaken the stomach and hurt digestion.

Elixir of vitriol is an excellent medicine in most cases of indigestion, weakness of the stomach, or want of appetite. From twenty to thirty drops of it may be taken twice or thrice a-day in a glass of wine or water. It may likewise be mixed with the tincture of the bark, one dram of the former to an ounce of the latter, and two tea-spoonfuls of it taken in wine or water, as

above.

The chalybeate waters, if drank in moderation, are generally of confiderable service in this case. The salt water has likewise good effects; but it must not be used too freely. The waters of Harrowgate, Scarborough; Mossat, and most other Spas in Britain, may be used with advantage. We would advise all who are afflicted with indigestion and want of appetite, to repair to these places of public rendezvous. The very change of air, and the cheerful company, will be of service not to mention the exercise, dissipation, amusements, &c.

#### OF THE HEART-BURN.

What is commonly called the *heart-burn* is not a difease of that organ, but an uneasy sensation of heat, or acrimony, about the pit of the stomach, which is sometimes attended with anxiety, nausea,

and vomiting.

It may proceed from debility of the stomach, indigestion, bile, the abounding of an acid in the stomach, &c. Persons who are stable to this complaint ought to avoid stale liquors, acids, windy or greafy aliments, and should never use violent exercise soon after a plentiful meal. I know many persons who never sail to have the heart-burn if they ride soon after dinner, provided they have drank ale, wine, or any fermented liquor; but are never troubled with it when they have drank rum or brandy and water, without any sugar or acid.

When the heart-burn proceeds from debility of the stomach, or indigestion, the patient ought to take a dose or two of rhubarb; afterwards he may use insusions of the Peruvian bark, or any other of the stomachic bitters, in wine or brandy. Exercise in the open air will likewise be of use, and every thing that promotes digest-

ion.

When bilious humours accasion the heart-burn, a tea-spoonful of the fweet spirit of nitre in a glass of water, or a cup of tea, will generally give eafe. If it proceeds from the use of greafy aliments,

a dram of brandy or rum may be taken.

If acidity or fourness of the stomach occasions the heart-burn, abforbents are the proper medic nes. In this case an ounce of powdered chalk, half an ounce of fine fugar, and a quarter of an ounce of gum arabic, may be mixed in an English quart of water, and a tea-cupful of it taken as often as is necessary. Such as do not choose chalk, may take a tea-spoonful of prepared oyster shells, or of the powder called crab's eyes, in a glass of cinnamon or peppermint water. But the fafest and best abluabent is magnesia alba .-This not only ass as an absorbent, but likewise as a purgative; whereas chalk, and other absorbents, of that kind, are apt to lie in the intestines, and occasion obstructions. This powder is not difagreexble, and may be taken in a cup of tea, or a glass of mintwater. A large tea-spoonful is the usual dose; but it may be taken he a much greater quantity when there is occasion. These things are now generally made up into lozenges for the conveniency of being carried in the pocket, and taken at pleasure.

If wind be the cause of this complaint, the most proper medicines are those called carminatives; as anniseed, juniper berries, ginger, canella alba, cardamom feeds, &c. Thele may either be chewed, or infused in wine, brandy, or other spirits. One of the fafest medicines of this kind is the tincure made by infusing an Junce of rhubarb, and a quarter of an ounce of the leffer cardamom feeds, in an Englith pint of brandy. After this has digested for two or three days, it ought to be strained, and four ounces of white fugar-candy added to it. It must stand to digest a second time till the sugar be dissolved. A table-spoonful of it may be taken oc-

calionally for a dofe.

I have frequently known the heart-burn cured, particularly in pregnant women, by chewing green tea. Two table-spoonfuls of what is called the milk of gum-ammoniae, taken once or twice a-

day, will fometimes cure the heart-burn.

#### C H A P. XLIII.

#### OF NERVOUS DISEASES

F all diseases incident to mankind, these of the nervous kind are the most complicated and dissicult to cure. A volume would not be sufficient to point out their various appearances .-They imitate almost every disease; and are sold malike in two different persons, or even in the same person at different times. Proteus-like, they are constantly changing shape; and upon every fresh attack, the patient thinks he feels symptoms which he never experienced before. Nor do they only affect the body; the mind likewise suffers, and is often thereby rendered extremely weak and peevish. The low spirits, timeronsness, melancholy, and sickness of temper, which generally attend nervous disorders; induce many to believe that they are entirely diseases of the mind; but this change of temper is rather a consequence, than the cause of nervous diseases.

CAUSES.—Every thing that tends to relax or weaken the body, disposes it to nervous diseases, as indolence, excessive venery, drinking too much tea, or other weak watery liquors warm, frequent bleeding, purging, vomiting, &c. Whatever hurts the discission, or prevents the proper assimilation of the food, has likewise this effect; as long fasting, excess in eating or drinking, the use of windy, crude, or unwholesome aliments, an unfavorable posture

of the body, &c.

Nervous diforders often proceed from intense application to study. Indeed few studious persons are entire'y tree from them. Nor is this at all to be wondered at; intense thinking not only preys upon the spirits, but prevents the person from taking proper exercise, by which means the digestion is impaired, the nomissment prevented, the solids relaxed, and the whole mass of humors vitiated. Grief and disappointment because produce the same essents. I have known more nervous patients who dated the commencement of their disorders from the loss of a husband, a favorite child, or some disappointment in life, than from any other cause. In a word, whatever weakens the body, or depresses the spirits, may occasion nervous disorders, as unwholesome air, want of sleep, great sitigue, disagreable apprehensions, anxiety, vexation, &c.

SYMPTOMS.—We shall only mention some of the most general symptoms of these disorders, as it would be both a useless and an endless task to enumerate the whole. They generally begin with windy inflations or distendent of the stomach and intestines; the expetite and digestion are usually bad; yet sometimes there is an uncommon craving for food, and a quick digestion. The food often turns sour on the stomach, and the patient is troubled with vontining of clear water, tough phlegm, or a blackith colored liquot resembling the grounds of coffee. Exeruciating pains are often sell about the navel, attended with a runbling or murmuring noise in the bowels. The body is sometimes lobse, but more coronouly bound, which

occasions a retention of wind and great unersiness.

There urine is formetimes in small quantity, at other times very copious and quite clear. The is a great strainers of the breast,

with difficulty of breathing, violent palpitations of the heart;—fudden flushings of heat in various parts of the body, at other times a sense of cold, as if water were poured on them; flying pains in the arms and limbs; pain in the back and belly, resembling those occasioned by gravel; the pulse very variable, sometimes uncommonly flow, and at other times very quick; yawning, the hiccup, frequent sighing, and a sense of softocation as if from a ball or lump in the throat; alternately fits of crying and convulsive laughing; the sleep is unsound and seldom refreshing; and the patient is often troubled with the night-mare.

As the difease increases the patient is molested with head-aches, cramps, and fixed pains in various parts of the body; the eyes are clouded, and often affected with pain and dryness; there is a noise in the ears, and often a dulness of hearing, in short, the whole animal functions are impaired. The mind is disturbed on the most trivial occasions, and is hurried into the most perverse commotions, inquietudes, terror, sadness, anger, dissidence, &c.—The patient is apt to entertain wild imaginations and extravagant fancies; the memory becomes weak, and the judgment fails.

Nothing is more characteristic of this disease than a constant dread of death. This renders those unhappy persons who labor under it peevish, siekle, impatient, and apt to run from one physician to another; which is one reason why they seldom reap any benist from medicine, as they have not sufficient resolution to persist in any one course till it has time to produce its proper effects. They are likewise apt to imagine that they labor under diseases from which they are quite free; and are very angry if any one attempts to set them right, or laugh them out of their ridiculous notions.

REGIMEN .- Persons afflicted with nervous diseases ought never to fait long. Their food flould be folid and nourifling, but of easy digestion. Fat meats and heavy sauces are huriful. All excess should be carefully avoided. They ought never to eat more at a time than they can eafily digeft; but if they feel themfelves weak and faint between meals, they ought to eat a bit of bread, and drink a class of wine. Heavy suppers are to be avoid-Though wine in excess enfeables the body, and impairs the faculties of the mind, yet taken in moderation, it strengthens the stomach, and promotes digestion. Wine and water is a very proper drink at meals; but if wine fours on the stomach, or the patient is much troubled with wind, brandy and water will anfiver better. Every thing that is windy or hard of digestion must be avoided. All weak and warm liquors are hurtful, as tea, c ffee, punch, &c. People may find a temporary relief from the ufe of these, but they always increase the maledy, as they weaken the

stomach and hurt digestion. Above all things, drams are to be avoided. Whatever immediate ease the patient may teel from the use of ardent spirits, they are sure to aggravate the malady, and prove certain poisons at last. These causions are the more necessary, as wost nervous people are peculiarly fond of sea and ardent

spirits; to the use of which many of them fall victims.

Exercise in nervous disorders is superior to all unedicines. Ending on horseback is generally esteemed the best, as it gives motion to the whole body, without traiguing it. I have known some patients, however, with whom working agreed better, and others who were most benefited by riding in a carriage. Every one ought to use that which he finds most beneficial. Long sea voyages have an excellent effect; and to those who have sufficient resolution, we would by all means recommend this course. Even change of place, and the sight of new objects, by diverting the mind, have a great tendency to remove these complaints. For this reason a long journey, or a voyage, is of much more advan-

tage than riding short journeys near home.

A cool and dry air is proper, as it braces, and invigorates the whole body. Few things tend more to relax and enervate than hot air, especially that which is rendered so by great fires, or floves in small apartments. But when the stomach or bowels are weak, the body ought to be well guarded against cold, especially in winter, by wearing a thin flannel waiftcoat next the skin. This will keep up an equal perspiration, and defend the alimentary canal from any impressions to which it would be otherwise subject, upon every fudden change from warm to cold weather. Rubbing the body frequently with the flesh brush, or a coarse linen cloth, is likewife beneficial, as it promotes the circulation, perspiration, &c. Persons who have weak nerves ought to rife early, and take exercise before breakfast, as lying too long a bed cannot fail to relax the folids. They ought likewise to be diverted, and to be ket as eafy and chearful as possible. There is not any thing which harts the nervous fystem, or weakens the digestive powers, more than fear, grief, or anxiety.

MEDICINES.—Though nervous difeases are feldom radically cured, yet their fymptoms may femerimes be alleviated, and the patient's life rendered at least more confortable by proper

medicines.

When the patient is costive, he ought to take a little rhularb, or some other mild purgative, and should never suffer his body to be long bound. All strong and vicient purgatives are however to be avoided, as aloes, julap, &c. I have generally seen an insufficion of senna and rhubarb in brandy answer very well. The may be made of any strength, and taken in such quantity as the quent

finds necessary. When digestion is bad, or the stomach relaxed and weak, the following infusion of Peruvian bark and other bit-

ters may be used with advantage:

Take of Pernyian bark an ounce, gentian root, orange peel, and coriander-feed, of each half an onnce; let these ingredients be all bruised in a mortar, and infused in a bottle of brandy or rum, for the space of five or six days. A table-spoonful of the strained liquor may be taken in a half glass of water, an hour before breek-

fait, dinner, and supper.

Few things tend more to strengthen the nervous system than cold bathing. This practice, if duly persisted in, will produce very extraordinary effects; but when the liver or other viscera are obtained, or otherwise unsound, the cold bath is improper. It is therefore to be used with very great caution. The most proper stations for it are summer and autumn. It will be sufficient, especially for persons of a spare habit, to go into the cold bath three or four times a-week. If the patient be weakened by it, or feels chilly for a long time after coming out, it is improper.

In patients afflicted with wind, I have always observed the greatest benefit from the clixir of vitriel. It may be taken in the quantity of sifteen, twenty, or thirty drops, twice or thrice a-day in a glass of water. This both expels wind, strengthens the stomach,

and promotes digestion.

Opiates are generally extolled in these maladies: but as they only palliate the symptoms, and generally afterwards increase the disease, we would advise people to be extremely sparing in the use of them,

lest habit render them at last absolutely necessary.

It would be an easy matter to enumerate many medicines which have been extolled for relieving nervous disorders; but whoever withes for a thorough cure must expect it from regimen alone; we shall therefore omit mentioning more medicines, and again recommend the strictest attention to diet, air, exercise, and amusements.

OF MELANCHOLY.

Melancholy is that state of alienation or weakness of mind which renders people incapable of enjoying the pleasures, or performing the duties of life. It is a degree of infanity, and often terminates

in absolute madness.

CAUSES—It may proceed from a hereditary disposition; intense thinking, especially where the mind is long occupied about one object; violent passions or affections of the mind, as love, sear, jov, grief, pride, and such like. It may also be occasioned by excessive venery, narcotic or stupesactive possons, a sedentary life, solicule, the suppression of the customary evacuations, acute severs, or other diseases. Viclent anger will change melanchuly into med-

Q q

ness; and excessive cold, especially of the lower extremities, will force the blood in a the brain, and produce all the symptoms of madness. It may likewise proceed from the use of aliment that is hard of digestion, or which cannot be easily assimilated; from a callous state of the integuments of the brain, or a dryness of the brain itself. To all which we may add gloomy and mistaken no-

tions of reliaion.

SIMPTOMS.—When perfons begin to be melancholy, they are times or, whichful, fond of folitude, freiful, fickle, captious, and inquifice, folicitous about trifles, fometimes triggardly, and at other times pradigal. The body is generally bound, the urine thin, will in small quantity, the flomach and bowels inflated with wind, the complexion pale, the pulfe flow and weak. The functions of the mind are also greatly perverted, infomuch that the patient often imagines himself dead, or changing into some other animal. Some have imagined their bodies were made of glass, or other brittle subdances and were afraid to move, lest they should be broken to pieces. The unhappy patient, in this case, unless carefully watched, is apt to put an end to his own miserable life.

When the diffuse is owing to an obstruction of customary evacuations, or any bodily disorder, it is easier cured than when it proceeds from offections of the mind, or an heriditary taint. A discharge of blood from the nose, leoseness, seably eraptions, the bleeding piles, or the menses, sometimes carry off this disease.

REGIMEN.—The diet should consist chiefly of vegetables of a cooling and opening quality. Animal food, especially salted or sm ke dried fish or flesh, oright to be avoided. All kind of shell-fish are bad. Aliments prepared with onions, garlie, or any thing that generates thick blood, are likewise improper. All kinds of stuits that are wholesome may be eaten with advantage. Boerhaave gives an instance of a patient, who, by a long use of whey, water, and garden-fruit, recovered, after having evacuated a great quantity of block-colored-matter.

Strong liquors of every kind ought to be avoided as poison. The most proper drink is water, whey, or very small beer. Tea and cost e are improper. If honey agrees with the patient, it may be eaten freely, or his drink may be sweetened with it. Insusions of balm-leaves, penny-royal, the roots of wild valerian, or the flowers of the lime-tree may be drank freely, either by themselves, or sweetened with honey, as the patient shall choose.

The patient ought to take as much exercise in the open zir as he can bear. This helps to dissolve the viscid humours, it removes obstructions, promotes the perspiration, and all the other secretions, Every kind of madness is attended with a diminished perspiration; all means ought therefore to be used to premote the necessary and

Cutary discharge. Nothing can have a more direct tendency to increase the discase, than confining the patient to a close apartment. Were he forced to ride or walk a certain number of miles every day, it would tend greatly to alleviate his disorder; but it would have still a better effect, if he were obliged to labour a piece of ground. By digging, hoeing, planting, sowing, &c. both the body and mind would be exercised. A long journey, or a voyage, especially towards a warmer climate, with a reeable companions, has often very happy effects. A plan of this kind, with a strict attention to diet, is a much more rational method of cure, then confining the patient within doors, and plying him with medicines.

MEDICINE.—In the cure of this discase particular attention must be paid to the mind. When the patient is in a low state, his mind ought to be soothed and diverted with variety of amusements, as entertaining stories, passines, music, &c. This seems to have been the method of curing melanchol, among the Jews, as we learn from the story of King Sinl; and indeed it is a very rational one. Nothing can remove diseases of the mind so effectually as applications to the mind itself, the most efficacious of which is nussic.—The patient's company ought likewise to confist of such persons as are agreeable to him. People in this state are apt to conceive unaccountable aversions against particular persons: and the very sight of such persons is sufficient to distract their minds, and throw there into the utmost perturbation.

When the patient is high, evocuations are necessary. In this case he must be bled, and have his body kept open by purging medicines, as manna, rhubarb, creem of tartar, or the soluble tartar. I have seen the last have very happy effects. It may be taken in the dose of half an ounce, dissolved in water-gruel, every day, for several weeks, or even for months, it necessary. More or less may be given, according as it operates. Vomits have likewise a good effect; but they must be pretty strong, otherwise they will not

operate.

Whitever increases the evacuation of urine, or promotes perspiration, has a tendency to remove this disease. Both these secretions may be promoted by the use of nitre and vinegar. Half a dram of purified nitre may be given three or four times a-day, in any manner that is most agreeable to the patient; and an ounce and a half of distilled vinegar may be daily mixed with his drink. Dr. Locker seems to think vinegar the best medicine that can be given in this distance.

Camphor and musk have likewise been used in this case with advantage. Ten or twelve grains of camphor may be rubbed in a correct with half a dram of nitre, and taken twice a-day, or oftener, in the stomach will bear it. It is will not sit upon the stomach

in this form, it may be made into pills with gum asascetida, and Russian castor, and taken in the quantity above directed. If musk is to be administered, a scruple or twenty five grains of it may be made into a bolus with a little honey or common syrup, and taken twice or thrice a-day. We do not mean that all these medicines should be administered at once; but whichever of them is given must be duly persisted in, and where one fails, another may be tried.

As it is very difficult to induce patients in this difense to take medicines, we shall mention a few outward applications which sometimes do good: the principal of these are islues, seatons, and warm bathing. Issues may be made in any part of the body, but they generally have the best effect near the spine. The discharge from these may be greatly promoted by dressing them with the mild blistering ointment, and keeping what are commonly called the orrice pease in them. The most proper place for a seaton is between the shoulder-blades; and it ought to be placed upwards and downwards, or in the direction of the spine.

#### OF THE PALSY.

The pally is a loss or diminution of fense or motion, or of both, in one or more parts of the body. Of, all the affections called nervous, this is the most suddenly tatal. It is more or less dangerous, according to the importance of the part affected. A pally of the heart, lungs, or any part necessary to life, is mortal. When it affects the stomach, the intestines, or the bladder, it is highly dangerous. If the sace be affected, the case is lad, it shows that the discase proceeds from the brain. When the part affected feels cold, is insensible, or wastes away, or when the judgment and memory begin to fail, there is small hope of a cure.

CAUSES.—The immediate cause of palsy is any thing that prevents the regular exertion of the nervous power upon any particular muscle or part of the body. The occasional and pre-disposing causes are various, as drunkenness, wounds of the brain, or spinal trarrow, pressure upon the brain or nerves, very cold or dan pair, the suppression of the customary evacuations, sudden fear, want of exercise, or whatever greatly relaxes the system, as drinking much teas, or cossee. The palsy may likewise proceed from

<sup>\*</sup> Many people imagine, that tea has no tendency to hurt the nerves, and that drinking the same quantity of warm water would be equally fernicious. Thus, however, seems to be a missive. Many persons drink three or four cupsest warm milk and water daily, without seeling any had consequences: yet the same quantity of tea will make their heads shake for twenty-four hours. That tea affects the nerves is like-

wounds of the nerves themselves, from the poisonous sumes of me-

tals or minerals, as mercury, lead, arfenic.

In young perfons of a tull habit, the palfy must be treated in the same manuer as the sanguine apoplexy. The patient must be bled, blifterei, and have his body opened by fharp clyfters or purgative medicine. But, in old age, or when the disease proceeds from re axation or debility, which is generally the case, a quite contrary course mult be pursued. The diet must be warm and invigorating, featoned with spicy and aromatic vegetables, as mustard, horse radih, &c. The drink may be generous wine, mustard whey, or beindy and water Friction with a flish-brush, or a warm hand, is extremely proper, especially on the parts affected. Bliftering plasters may likewise be applied to the affected parts with advantage. When this cannot be done, they may be rubbed with the volatile liniment, or the nerve ointment of the Edinburgh dispensatory. One of the best external applications is electricity, The shocks, or rather vibrations, should be received on the part affected, and they ought daily to be repeated for several weeks.

Vomits are very beneficial in this kind of palfy, and ought fre-

quently to be administered. Cephalic snuff, or any thing that makes the patient sneeze, is likewise of use. Some pretend to have found great benefit from rubbing the parts affected with nettles; but this does not feem to be any way preferable to bliftering. If the tengue is affected the patient may gargle his mouth frequently with brandy and mustard; or he may hold a bit of sugar in his mouth wet with the palfy drops, or compound spirits of lavender. The wild valerian root is a very proper medicine in this case. It may either be taken in an infusion with sage leaves, or half a dram of it in powder may be given in a glass of wine three or four times a-day. If the patient cannot use the valerian, he may take of fal volatile oleofum, compound spirits of lavender, and tincture of castor, each half an ounce ;mix these together, and take forty or fifty drops in a glass of wine three or four times a-day. A table-spoonful of multard feed taken frequently is a very good medicine. The patient ought likewife to chew cinnatnon bark, ginger, or other warm friceries.

Exercise is of the utmost importance in the palfy; but the patient ranst beware of cold, damp, and moist air. He ought to wear flannel next his skin, and, it possible, should remove into a

wirmer climate.

wife evident from i's proventing fleep, occusioning giddiness, dimnoss of the fight, fickness, Sc.

## OF THE EPILEPSY; OR, FALLING SICKNESS.

The epilepfy is a fuddent deprivation of all the fenfes, wherein the patient talls fuddenty dewnend is affected with violation of all the fenfes, wherein five motions. Children, of emalty their who are minimally account up, are most subject to it. It more is quently attack in a thin women, and is very difficult to core. When the milet wasticks children, there is reason to appear in y go off about the time of our berty. When it attacks any perion at or twenty years of age the cure is difficult; but when after forcy, a care is hardly to be expected. If the sit continues only for a short space, and returns seldom, there is reason to hope; but if it continues long and returns frequently, the prospect is had. It is a very unisverable symptom when the patient is seized with the sits in his sites.

CAUSES—The epiteply is fometimes heredicary. It may proceed likewife from blows, bruifes, or wounds on the head, a collection of water, blood, or ferous humors in the brain, a polypus, tumors or concretions within the fault, excessive drinking, intente study, excess of venery, worms, teething, suppression of customary evacuations, too great emplaness or repletion, violent passions or affections of the mind, as fear, jay &c. hysteric aftections, contagion received into the body, as the intection of the

imali pox, meriles, &c.

SYMPTOMS.—An epiloptic fire ulur ly recorded by unufuel wearinels, pain of the head, dulinels, giddit of, notice in the ears, dimnels of fight, palpitation of the heart, disturbed fleep, difficult breathing, the bowels are inflated with wind, the unine is in great quantity, but thin, the complexion is pale, the extremities are not, and the patient often feels, as it were, a fiream of cold air

ascending towards his head.

In the fit the patient generally makes the unufual noise, his thumbs are drawn in towards the palms of the hands, his eyes are differted, he starts, and toams at the mouth, his extremitie are bent and twisted various 7 yes, he often discharges his feed unite, and facces involuntarily, and is quite destitute of all tense & reason. After the sit is over, his senses practically return, and he complains of a kind of stupor, we arises, and pen of this head, but has no remembrance of what happened to him during the sit.

The fits are fometimes excited by violent affeitions of the mind,

a debauch of liquor, excessive han, cold, or the like.

This difease, from the difficulty of investigating its causes, and its strange symptoms, was formerly attributed to the wrath of the gods, or the agency of the evil spirits. In modern times it has often, by the vulgar, been imputed to witchcrast or fall mation.

It depends however as much upon natural causes as any other shalls.

dy ; and its cure may often be effected by perfifting in the ule of

proper means.

REGINEN.—Epileptic patients ought, if possible, to breathe a pure and thee air. Their diet should be light but nourishing. They ought 40 drink nothing strong, to avoid swine's stelle, waterfowl, and likewise windy and oily vegetables, as cabbage, nuts, sec. They ought to keep themielves cheerful, carefully guarding against all violent possions, as anger, sear, excessive joy, and the like.

Exercise is likewise of great use; but the patient must be careful to avoid all extremes either of heat or cold, all dangerous situstions, as standing upon precipices, riding deep waters and such like.

MEDICINE.—The intentions of cure must vary according to the cause of the disease. If the patient be of a sanguine temperament, and there be reason to sear an obstruction in the brain, bleeding and other evacuations will be needlary. When the disease is occasioned by the stoppage of customary evacuations, these is possible, must be restored; if this cannot be done, others may be subdituted in their place. Issues or setons in this case have often a very good effect. When there is reason to believe that the disease proceeds from worms, proper medicines must be used to kill, or carry off these vermin. When the disease proceeds from teathing the body must be kept open by emollient clysters, the seet frequently bathed in warm water, and, if the sits prove obtains e, a biftering plaster may be put between the shoulders. The same method is to be followed, when epileptic sits preceed the eruption of the small-pox, or measles, &c.

When the diferie is hereditary, or proceeds from a wrong formation of the brain, a cure is not to be expected. When it is owing to a debitity, or too great an irritability of the nervous fyftem, such medicines as tend to brace and firengthen the nerves may be used; as the Peruvian bark, and steel; or the anti-epileptic

electuaries, recommended by Fuller and Mead .

The flowers of zinc, have of late been highly excolled for the cure of the epileply. Tho' this medicine will not be found to answer the expeciations which have been raised concerning it, yet in obstinate epileptic cases it deserves a trial. The dose is from two to three or four grains, which may be taken either in pills or a bolus, as the patient inclines. The best method is to begin with a single grain four or sive times a day, and gradually to increase the dose as are as the patient can bear it. I have known this a editine, when duty perfished in, prove beneficial.

<sup>\*</sup> See Appendix, Eladuary for the Epilepfy,

Muss has sometimes been found to succeed in the epileair — Ten or tweive grains of it, with the same quantity of same us cinnabar, may be made up into a bolus, and taken every night and morning.

Sometimes the epi'epfy is cured by elodric ty.

Convention fits placed from the felie caules, and must be

treated in the fame manner as the epilepty.

There is one particular typicies of convultion Lie which commonly goes by the name of St. Vitus's darker, wherein the parient is agitated with firange motions and getticularions, which by the common people are generally believed to be the effects of witcheraft. I his difease may be cured by repeated bleedings and purges; and afterwards ofing the medicines prescribed above for the epilepty, viz. the Peruvian bark and inskeroot, &c. Chary beate waters are found to be beneficial in this case. The cold bath is likewise of fingular service; and ought never to be neglected when the patient can bear it.

#### OF THE HICCOUGH.

The hiccough is a fasfmodic or convultive affection of the flomach and midriff, arising from any cause that irritates their nervous fibres

It may proceed from excels of eating or drinking; from a hurt of the floweth, poiters, it a marious or fairthus where at the flowath, intellines, bladder, midriff, or the rest of the eife ra. In gangrones, state and malignant severs, a hickoryh is often the forerunner of death.

When the hiccough proceeds from the ale of aliment that is fletplent, or lard of digestion, a draught of generous wine or a dram
of any finiteus liquor, will generally remove it. If pollon be
the cause, plenty of milk and oil multibe drawk, as his been sormerly recommended. When it proceeds from an inflamation of
the stomach, &c. it is very dangerous. In this case the cooling
regimen ought to be strictly observed. The patient must be bied,
and take frequently a few drops of the sweet spirits of names a
cup of wine whey. His stomach should likewise be somented
with cloths dipped in warm water, or have blauders sided with
warm milk and water applied to it.

When the hiccough proceeds from a gargrene, or mortification, the Peruvian bark, with other antifeptics, are the only measures which have a chance to succeed. When it is a commany disease, and proceeds from a foul stomach, loaded either with a pitulious or a bilious humor, a gentle vomit and purge, if the point be able bear them, will be of service. If it arises from slau-

lencies, the carminative medicines directed for the heart-burn must be used.

When the hiccough proves very obstinate, recourse must be had to the most powerful aromatic and antispasmodic medicines. The principal of these is musk; fifteen or twenty grains of which may be made into a bolus, and repeated occasionally. Opiates are likewise of service, but they must be used with cantion. A bit of sugar diped in compound spirits of lavendar, or the volatile aromatic tincture may be taken frequently. External applications are sometimes also beneficial, as the stomach plaster, or a cataplasm of the Venice treacle of the Edinburgh or London Dispensatory, applied to the region of the stomach.

I lately attended a patient who had almost a constant hiccough for almost nine weeks. It was frequently stopped by the use of musk, opium, wine, and other cordials and antispassmedic medicines, but always returned. Nothing however gave the patient so much ease as brisk small-beer. By drinking freely of this, the hiccough was often kept off for several days, which was more than could be done by the most powerful medicines. The patient was at length scized with a vomiting of blood, which soon put an end to his life. Upon opening the body, a large scirrhus tumor was sound near the pylorus or right orifice of the stomach.

The hiccough may be removed by taking vinegar, or by a few drops of the oil of vitriol taken in water.

#### CRAMP-IN THE STOMACH.

This difease often seizes people suddenly, is very dangerous, and requires immediate affistance. It is most incident to persons in the decline of life, especially the nervous, gouty, hysteric, and hypochondriac.

If the patient has any inclination to von it, he ought to take some draughts of warm water, or weak camomile tea, to cleanse his stomach. After this, if he has been costive, a laxative elyster may be given. He ought then to take landanum. The best way of administering it is in a clyster. Sixty or seventy drops of liquid landanum may be given in a clyster of warm water. This is much more certain than landanum given by the mouth, which is often vomited, and in some cases increases the pain and spasms in the stomach.

If the pain and cramps return with great violence, after the effects of the anodyne clytter are over, another, with an equal or a larger quantity of opinm, may be given; and every four or five hours a bolus, with ten or twelve grains of musk, and half a dram of the Venice treacle.

In the mean time, the stomach ought to be somented with cloths diped in warm water, or bladders filled with warm milk and water should be continually applied to it. I have often seen these produce the most happy effects. The anodyne belsam may also be rubed on the part affected, and an anti-hysteric plaster worn upon it for some time after the cramps are removed, to prevent their return.

In very violent and lasting pains of the stomach, some blood ought to be let, unless the weakness of the patient forbids it. When the pains or cramps proceed from a suppression of the menses, bleeding is of use. If they be owing to the gout, recourse must be had to spirits, or some of the warm cordial waters. Blistering plasters ought like vise in this case to be applied to the ancles. I have often seen violent cramps and pains of the stomach removed by covering it with a large plaster of Venice treacle.

#### OF THE NIGHT-MARE.

In this disease, the patient, in time of sleep, imagines he feels an uncommon oppression or weight about his breast or stomach, which he can by no means she ke off. He groans, and sometimes cries out, tho' oftener he attempts to speak in vain. Sometimes he imagines himself engaged with an enemy, and in danger of being killed, attempts to run away, but finds he cannot. Sometimes he fancies himself in a house that is on fire, or that he is in danger of being drowned in a river. He often thinks he is falling over a precipice, and the dread of being dashed to pieces suddenly awakes him.

This diforder has been supposed to proceed from too much blood, from a stagnation of blood in the brain, lungs, &c. But it is rather a nervous affection, and arises chiefly from indigestion. Hence we find that persons of weak nerves, who lead a sedentary life, and live full, are most commonly afflicted with the night-mare. Nothing tends more to produce it than heavy suppers, especially when cauch late, or the patient goes to bed soon after. Wind is likewise a very frequent cause of this disease; for which reason those who are assisted with it, ought to avoid all flatulent food. Deep thought, anxiety, or any thing that oppresses the mind, ought also to be avoided.

As perfons afflicted with the night-mare generally moan, or make fome noise in the fir, they should be waked, or spoken to by such as hear them, as the uneasiness generally goes off as soon as the patient is awake. Dr. Whytt says, he generally found a dram of brandy, taken at bed-time, prevent the disease. This however is a bad custom, and in time loses its effects. We would rather have the patient depend upon the use of food of easy digestion, cheersulness, exercise through the day, and a light supper taken early, than to accustom himself to drams. A glass of peppermint-water will often promote digestion as much as a glass of brandy, and is much safer. After a

person of weak digestion, however, has eaten flutulent food, a dram may be necessary; in this case we would recommend it as the most proper medicine.

Perfons who are young, and full of blood, if troubled with the night-mare, ought to take a purge frequently, and use a spare

dict.

#### OF SWOONINGS.

People of weak nerves, or delicate conftitutions, are liable to fwoonings, or fainting fits. These, indeed, are seldom dangerous, when duly attended to; but when wholly neglected, or improperly

treated, they often prove hurtful, and sometimes fatal.

The general causes of swoonings are, sudden transitions from cold to heat, breathing air that is deprived of its proper spring or elasticity, great satigue, excessive weakness, loss of blood, long fasting, fear, grief, and other violent passions or affections of the mind.

It is well known, that perfons who have been long exposed to the cold, often faint or fall into a swoon, upon coming into the house, especially if they drink hot liquor, or sit near a large sire. This might easily be prevented by people taking care not to go into a warm room immediately after they have been exposed to the cold air, to approach the fire gradually, and not to eat or drink any thing hot, till the body has been gradually brought into a warm temperature.

When any one, in consequence of neglecting these precautions, falls into a swoon, he ought immediately to be removed to a cooler apartment, to have ligatures applied above the knees and clows, and to have his hands and face sprinkled with vinegar or cold water. He should likewise be made to smell to vinegar, and should have a spoonful or two of water, if he can swallow, with about a third part of vinegar mixed with it, poured into his mouth. If these should not remove the complaint, it will be necessary to bleed the

patient, and afterwards to give him a clyfter.

As air that is breathed frequently loses its elasticity or spring, it is no wonder if persons who respire in it, often stall in a sween or tainting sit. They are in this case deprived of the very principle of life. Hence it is that fainting sits are so frequent in all crowded assemblies, especially in hot seasons. Such sits, however, must be considered as a kind of temporary death; and, to the weak and delicate, they sometimes prove satal. They ought therefore with the utmost care to be guarted against. The method of doing this is obvious. Let assembly room, and all other places of public resort, be large and well ventilated, and let the weak and delicate avoid such places, particularly in warm seasons.

A person who faints in such a situation, ought immediately to be carried into the open air; his temples should be rubed with strong vinegar or brandy, and volatile spirits or falts held to his nose. He should be laid upon his back, with his head low, and have a little wine, or some other cordial, as soon as he is able to swallow it, poured into his mouth. If the person has been subject to hysteric fits, castor or asafectida should be applied to the nose, or burnt sea-

thers, horn, or leather, &c.

When fainting fits proceed from mere weakness or exhaustion, which is often the case after great satigue, long sasting, loss of blood, or the like, the patient must be supported with generous cordials, as jellies, wines, spiritous liquors, and such like. These, however, must be given at first in very small quantities, and increased gradually as the patient is able to bear snem. He ought to be allowed to lie quite still and easy on his back, with his head low, and should have fresh air admitted into his chamber. His food should consist of nourishing broths, sago gruel with wine, new milk, and other things of a light and cordial nature. These things are to be given out of the sit. All that can be done in the sit is, to let him smell to a bottle of Hungary water, eau de luce, or spirits of hartshern, and to rub his temples with warm brandy, or to lay a compress diped in it to the pit of the stomach.

In fainting fits that proceed from fear, grief, or other vicient passions or affections of the mind, the patient must be very cantiously managed. He should be suffered to remain at rest, and only made to smell to some vinegar. After he has come to himself, he may drink freely of warm lemonade, or balm-tea, with some orange or lemon peal in it. It will likewise be proper, if the fainting fits have been long and severe, to clean the bowels by throwing is an

emollient clyster.

It is common in fainting fits, from whatever cause they proceed, to bleed the patient. This practice may be very proper in strong persons of a full habit; but in those who are weak and delicate, or subject to nervous disorders, it is dangerous. The proper method with such people is, to expose them to the free air, and to use condial and stimulating medicines, as volatile salts, Hungary water, spirits of lavendar, tinesture of castor, and the like.

#### OF FLATULENCE, OR WIND.

All nervous patients, without exception, are afflicted with wind or flatulencies in the ftomach and bowels, which arise chiefly from the want of tone or vigor in those organs. Crude, fletulent aliment, as green pens, beans, coleworts, cabbages, and fuch like, may increase the complaint; but flrong and healthy people are seldom troubled with wind, unless they either overload their stomachs,

or drink liquors that are in a fermenting state, and consequently full of elastic air While there fore the matter of flatulence proceeds from our aliments, the cause which makes air separate from them in such quarrity as to occasion complaints, is almost always a fault of the bowels themselves, which are too weak either to prevent the production of elactic air, or to expel it after it is

To relieve this complaint, fuch medicines ought to be used as have a tendency to expel wind, and by ffrengthening the alimenta-

ry canal, to prevent its being produced there\*.

The lift of medicines for expelling wind is very numerous.— They often however difampoint the expectations of both the physician and his patient. The most celebrated among the class of carminatives, are juniper berries, the roots of ginger, and zedoary, the feeds of agnife, caraway, and coriander, gum afafoetida and opium, the warm waters, tinctures, and spirits, as the aromatic water, the tincture of wood-foot, the volatile aromatic spirit, æther, &c.

Dr. Whytt fays, he found no medicine more efficacious in expelling wind than æther and laudanum. He generally gave the laudarum in a mixture of peppermint-water and tincture of caftor, or fiveet spirits of nitre. Sometimes, in place of this, he gave opiun in pills with afafærida. He observes, that the good effects of opiates are equally conspicuous, whether the flatulence be contained in the stomach or intestines; whereas those warm medicines, commonly called carminatives, do not often give immediate relief, except when the wind is in the stomach.

With regard to æther, the doctor fays, he has often feen very good effects from it in the flatment complaints, where other medicines failed. The dose is a tea-spoonful mixed with two tablespoonfuls of watert. In gouty cases he observes that æther, a glass of French brandy, or of the aromatic water, or ginger, either taken in substance or insused in boiling water, are among the

best medicines for expelling wind.

When the case of flatulent patients is such as make it improper to give them warm medicines inwardly, the doctor recommends ex-

\* Many nervous people find great benefit from eating a dry hiscuit, especially when the Romach is empty. I look upon this as one of the best carminative medicines, and would recommend it in all complaints of the Romach, arifng from flatulence, indigeftion, &c.

† Though the patient may begin with this quantity, it will be necessiary to increase the dose gradually as the stomach can bear it. Ather is now given in considerable greater defeathan it was in Dr. Whyti's

ternal applications, which are sometimes of advantage. Equal parts of the anti-hysteric and stomach plaster may be spread upon a piece of soft leather, of such a size as to cover the greater part of the belly. This should be kept on for a considerable time, provided the patient be able to bear it; if it should give great uneasiness, it may be taken off, and the following liniment used in its stead:

Take of Bates's anodyne ballam, an ounce; of the expressed oil of mace, half an ounce; oil of mint, two drams: let these ingredients be mixed together, and about a table-spoonful well rubbed on

the parts at bed-time.

For strengthing the stomach and bowels, and consequently for lessening the production of flatulence, the doctor recommends the Peruvian bark, bitters, chalybeares, and exercise. In slatulent cafes, he thinks some nutmeg or ginger should be added to the tincture of the bark and bitters, and that the aromatic powder should be joined with the filings of iron.

When windy complaints are attended with costivences, which is often the case, tew things will be fund to answer better than four or five of the following pills, taken every night at bed-

time:

Take of alafæida two drams, succotrine aloes, salt of iron, and powdered ginger, of each one dram, as much of the eixir proprie-

taris as will be sufficient to form them into pills.

On the other hand, when the body is too open, twelve or fifteen grains of rhubarb, with half a dram or two feruples of the japonic confection, gives every other evening, will have very good offects.

In those flatulent complaints which come on about the time the monfes cease, repeated small bleedings often give more relief than

any other remedy.

With regard to diet, the doctor observes, that tea, and likewise all flatulent aliment, are to be avoided; and that for drink, water with a little brandy or rum is not only preferable to malt liquor, but

in most cases also to wine.

As Dr. Whytt has peid great attention to this fubject, and as his fentiments upon it in a great measure agree with raine. I have taken the liberty to adopt them; and shall only add to his observations, that exercise is in my opinion superior to all medicine, both for preventing the production and likewise for expelling of slatulencies. These effects, however, are not to be expected from sauntering about, or folling in a carriage; but from labour, or such active amust ments at give exercise to every part of the body.

#### OF LOW SPIRITS.

All who have weak nerves are subject to low spirits in a greater or less degree. Generous diet, the cold bath, exercise, and amusements, are the most likely means to remove this complaint, It is greatly increased by solitude and indulging gloomy ideas, but may often be relieved by cheerful company and sprightly amusements.

When low spirits are owing to a weak relaxed state of the stomach, and bowels, an infusion of Peruvian bark with cinnamon or nutneg will be proper. Steel joined with aromatics may Ekewise in this case be used with advantage; but riding, and a proper diet, are most to be depended on.

When they arife from a foulness of the stomach and intestines, or obstruction in the hypocondriac viscera, aloctic purges will be proper. I have fornetimes known the Harrowgate sulphur-wa-

ter of service in this case.

When low spirits proceed from a suppression of the menstrual or of the homorrhodial flux, these evacuations may either be rerestored, or form others substituted in their place, as issues, setons, or the like. Dr. Whytt observes, that nothing has such sudden good effects in this case as bleeding.

When low spirits have been brought on by long-continued grief, anxiety, or other distress of mind, agreeable company, variety of amusements and change of place, especially travelling into

foreign countries will afford the most certain relief.

Persons afflicted with low spirits should avoid all kinds of excess, especially of venery and strong liquors. The moderate use of wine and other strong liquors is by no means hurtful; but when taken to excess they weaken the stomach, vitiate the humors, and depress the spirits. This caution is more necessary, as the unfortunate and melancholy often sly to strong liquors for relief, by which means they never fail to precipitate their own destruction.

OF HYSTERIC AFFECTIONS.

These likewise belong to the sumerous tribe of nervous diseases, which may justly be rock and the reproach of medicine. Women of a delicate habit, whose stomachs and intestines are relaxed, and whose nervous system is extremely sensible, are most subject to hysteric complaints. In such persons a hysteric sit, as it is called, may be brought on by an irritation of the nerves of the stomach or intestines, by wind, aerid humor, or the like. A sudden suppression of the menser often gives rise to bysteric sits. They may likewise be excited by violent pessions or affections of the mind, as fear, grief, anger, or great disappointments.

Sometimes the hysteric fit resembles a swoon or fainting fit, during which the patient lies as in a fleep, only the breathing is for low as scarce to be perceived. At other times the patient is affeeted with eatchings and strong convulsions. The symptoms which precede hysteric fits are likewise various in different persons. Sometimes the fits come on with coldness of the extremities, yawning and streehing, lowness of spirits, oppression and anxiety. At other times the approach of the fit is foretold by a feeling, as if there were a ball at the lower part of the belly, which gradually rifes towards the stomach, where it occasions inflation, sickness, and fometimes vomiting; afterwards it rifes into the gullet, and occasions a degree of suffocation, to which quick breathing, palpitation of the heart, giddiness of the head, dimness of the fight, loss of hearing swith convulsive motions of the extremities and other parts of the body, succeed. The hysteric paroxysm is often introduced by an immoderate fit of laughter, and fometimes it goes off by crying. Indeed there is not much difference between the langhing and crying of an highly hysteric lady.

Our aim in the treatment of this disease must be to shorten the sit or paroxism when present, and to prevent its return. The longer the sits continue, and the smore frequently they return, the disease becomes the more obstinate. Their strength is increased by habit, and they induce so great a relaxation of the system, that

it is with difficulty removed.

It is customary, during the hysteric fit or paroxysm, to bleed the patient. In strong persons of a plethoric habit, and where the pulse is full, this may be proper; but in weak and delicate constitutions, or where the disease has been of long standing, or arises from inanition, it is not safe. The best course in such cases is to rouse the patient by strong smells, as burnt feathers, asasocial, or spirits of hars shorn, held to the nose. Hot bricks may also be applied to the soles of the feet, and the legs, arms, and belly may be strongly rubbed with a warm cloth. But the best application is to put the feet and legs into warm water. This is peculiarly proper when the fits preceed the slow of the menses. In case of costiveness, a laxative clyster with asasocial will be proper; and as soon as the patient can swallow, two table-spoonfuls of a solution of asasocial, or of some cordial julep, may be given.\*

<sup>\*</sup> When hysteric sits are occasioned by sympathy, they may be cured by exciting an optosite pession. This is said to have been the case of a whole school of young indies in Holland, who were all cured by being told, that the first who was seized should be burnt to death. But this method of cure, to my knowledge will not always succeed. I vould therefore advise, that young ladies who are subject to hysteric site should

The radical cure of this disorder will be best attempted at a time when the patient is most free from the fits. It will be greatly promoted by a proper attention to diet. A milk and vegetable diet, when duly persisted in, will often perform a cure. If however, the patient has been accustomed to a more generous diet, it will not be safe to leave it off at once, but by degrees. The most proper drink is water with a small quantity of spirits. A cool dry air is the best. Cool bathing and every thing that braces the nerves, and invigorates the system, is beneficial; but sying too long in bed, or whatever relaxes the body is hurtful. It is of the greatest importance to have the mind kept constantly easy and cheerful, and, if possible, to have it always engaged in some agreeable and interesting pursuit.

The proper medicines are those which strengthen the alimentary canal and the whole nervous system, as the preparations of iron, the Peruvian bark, and other bitters. Twenty drops of the elixir of vitriol, in a cup of the insusion of the bark, may be taken twice or thrice a-day. The bark and iron may likewise be taken in substance, provided the stomach can bear them: but they are generally given in too small doses to have any effect. The chall beate waters

generally prove beneficial in this diforder.

If the stomach is loaded with thlegm, vomits will be of use; but they should not be too strong, nor frequently repeated, as they tend to relax and weaken the stomach. If there be a tendency to costiveness, it must be removed either by diet, or by taking an

opening pill as often as it shall be found necessary.

To letten the irriatbility of the system, antispasmodic medicines will be of use. The best antispasmodic medicines are mosk, opium, and castor. When opium disgrees with the stometh, it may either be applied externally, or given in clysters. It is often successful in removing those periodical head-aches to which hysteric and hypocondriae patients are subject. 'Castor has in some cases been found to procure sleep where opium failed; for which reason Dr. Whyte advices that they should be joined together. He likewise recommends the arri-hysteric plaster to be applied to the abdomen\*.

Hysteric women are often afflicted with cramps in various parts of the body, which are the most apt to seize them in bed, or when

not be fent to boarding schools, as the disease may be caught ly imitation. I have known madness itself brought on by sympathy.

<sup>\*</sup> Though aifful modies and anodynes are univerfully recommended in this discase, yet are the extraordinary cures that I over knew in by-feric coses, were performed by means of tonic and corroborating medicales.

affeep. The most efficacious medicines in this case are opium, blistering-plasters, and warm bathing or somentations. When the cramp or spass is very violent, opium is the remedy most to be depended on. In milder cases, immersing the sect and legs in warm water, or applying a blistering-plaster to the part affected, will often be sufficient to remove the complaint. In patients whose nerves are uncommonly delicate and sensible, it will be better to omit the blistering-plaster, and to attempt the cure by opiates, misk,

camphor, and the warm bath.

Cramps are often prevented or cured by compression. Thus cramps in the legs are prevented, and sometimes removed, by tight bandages; and when convulsions arise from a flatulent diffention of the intestines, or some spassins beginning in them, they may be often lessened or cured by making a pretty strong compression upon the abdomen, by means of a broad belt. A roll of brimstone held in the hand is frequently used as a remedy for cramps. Tho this seems to owe its effect chiefly to imagination; yet as it sometimes succeeds, it merits a trial\*. When spasses or convulsive motions arise from sharp humors in the stomach and intestines, no listing relief can be procured till these are either corrected or expelled. The Peruvian bark has sometimes cured periodic convulsions after other medicines has failed.

#### OF HYPOCONDRIAC AFFECTIONS.

This disease generally attacks the indolent, the luxurious, the unfortunate, and the sludious. It becomes daily more con men in this country, owing, no doubt to the increase of luxury and sedentary employments. It has so near a resemblance to the immediately preceding, that many authors consider them as the same disease, and treat them accordingly. They require however a very different regimen; and the symptoms of the latter, though less violent, are more permanent than those of the former.

Men of a melancholy temperament, whose minds are capable of great attention, and whose passions are not easily moved, are, in the advanced periods of life, most liable to this disease. It is usually brought on by long and serious attention to abstructe subjects, grief, the suppression of customary evacuations, excess of venery, the repulsion of cutaneous cruptions, long continued evacuations, obstruction in some part of the viscera, as the liver, speen, &c.

Hypocondriac persons ought never to fast long, and their food should be folid and nonrishing. All acescent and windy vegetables

<sup>\*</sup>Some persons afficied with cramps pretend to reap great benefit from small bundles of resemany tied all night about their feet, ancies, and knees.

a e to be avoided. Flesh meats agree best with them, and their drink should be old claret, or good Madeira. Should these disagree with the stomach, water, with a little brandy or rum in it, may be drank.

Cheerfulness and serenity of mind are by all means to be cultivated. Exercise of every kind is useful. The cold bath is likewise beneficial; and, where it does not agree with the patient, frictions with the stelli-brush, or a coarse cloth, may be tried. If the patient has it in his power, he ought to travel either by sea or land. A voyage, or a long journey, especially towards a warmer climate, will be of more service than any medicine.

The general intentions of cure, in this disease, are to strengthen the alimentary canal, and promote the secretions. These intentions will be best answered by the different preparations of iron, and the Peruvian bark, which, after proper evacuations, may be taken in

the same manner as directed in the preceding case.

If the patient be costive, it will be necessary to make use of some gentle opening medicine, as pills composed of equal parts of a 2, rhubarb, and asasocida, with as much of the elixir proprietations is necessary to form the ingredients into pills. Two, three, or four of these may be taken as often as it shall be found needful, to keep the body gently open. Such as cannot bear asasocida, may substitute Spanish soap in its place.

Though a cheerful glafs may have good effects in this difease, yet all manner of excels is hartful. Intense study, and every thing that

depresses the spirits are likewise pernicious.

Though the general fymptoms and treatment of nervous diforders were pointed out in the beginning of this chapter; yet, for the benefit of the unhappy persons afflicted with those obstinate and complicated maladies, I have treated several of their capital symptoms under distinct or separate heads. These, however, are not to be considered as different diseases, but as various modifications of the same disease. They all arise from the same general causes, and require nearly the same method of treatment. There are many other symptoms that merit particular attention, which the nature of my plan will not permit me to treat of at full length. I shall therefore omit them altogether, and conclude this chapter with a sew general remarks on the most obvious means of preventing or avoiding nervous disorders.

In all persons afflicted with nervous disorders, there is a great delicacy and sensibility of the whole system, and an uncommon degree of weakness of the organs of digestion. These may be either natural or acquired. When owing to a defect in the constitution, they are hardly to be removed, but may be mitigated by proper care. When induced by discases, as long or repeated severs, profuse hæmorrhages, or the like, they prove also very obstinate, and will yield only to a course of regimen calculated to restore and in-

vigorate the habit.

But nervous affections arise more frequently from causes, which it is in a great measure in our power to avoid, than from diseases, or an original fault in the constitution, &c. Excessive grief, intense study, improper diet, and neglect of exercise, are the great sources

of this extensive class of diseases.

It has been already observed, that grief indulged destroys the appetite and digestion, depresses the spirits, and induces a universal relaxation and debility of the whole system. Instances of this are daily to be seen. The loss of a near relation, or any other missortune in life, is often sufficient to occasion the most complicated see ries of nervous symptoms. Such missortunes indeed are not to be avoided, but surely their effects, by a vigorous and proper exertion of the mind, might be rendered less hurtful. For directions in this matter, we must refer the reader to the article Grief, in the chapter of the passions.

The effectivot intense study are pretty similar to those occasioned by grief. It preys upon the animal spirits, and destroys the appetite and digestion. To prevent these effects, studious persons ought, according to the poet, to toy with their books\*. They should never study too long at a time, nor attend long to one particular subject, especially if it be of a serious nature. They ought likewise to be attentive to their posture, and should take care frequently to unbend their minds by music, diversions, or going into agreeable

company.

With regard to diet, I shall only observe, that nervous diseases may be induced either by excess or inanition. Both or these extremes hurt the digestion, and vitiate the humours. When Nature is oppressed with fresh loads of sood, before she has had time to assimilate and digest her former meal, her powers are weakened, and the vessels are filled with crude humors. On the other hand, when the sood is not sufficiently nourishing, or is taken too seldom, the bowels are instanted with wind, and the bounces, for want of regular fresh supplies of wholesome chyle, are vitiated. These extremes are therefore with equal care to be avoided. They both tend to induce a relaxation, and debility of the nervous system, with all its dreadful train of consequences.

But the most general cause of nervous diorders is indelence. The astive and laborious are feldom troubled with them. They are reserved for the children of east and assume who generally seek their keepest force. All we shall say to such persons is, that the

<sup>\*</sup> Armstrong on Health.

means of prevention and cure are both in their power. If the constitution of human nature be such, that man must either labor or suffer diseases, surely no individual has any right to expect an ex-

emption from the general rule.

Those however who are willing to take exercise, but whose occupations confine them to the house, and perhaps to an unfavorable potture, really deserve our pity. We have in a former part of the book, endcavored to lay down rules for their conduct; and shall only add, that where these cannot be complied with, their place may in some measure be supplied by the use of bracing and strengthening medicines, as the Beruvian bark, and other bitters, the preparations of steel, the clixir of vitriol, and such like.

## C H A P. XLIV.

# DISORDERS OF THE SENSES.

E do not mean to treat of the nature of our fensations, or to give a minute description of the various organs, by which they are performed; but to point out some of the diseases to which these organs are most liable, and to show how they may be prevented or remedied.

OF THE EYE.

No organ of the body is subject to more diseases than the Eye; nor is there any one of which the diseases are more difficult to cure. Though more ignorant persons pretend to cure these than any other class of diseases, yet a very superficial acquaintence with the structure of the eye, and the nature of vision, will be sufficient to convince any one of the danger of trusting to them. These diseases often exceed the skill of the most learned physicians; hence we may easily infer the danger of trusting them to ignorant quacks, who, without all peradventure, put out more eyes than they cure.—But, though the diseases of the eye can seldom be cured, they might often, by due care, be prevented; and, even where the sight is totally lost, many things might be done, which are generally neglected, to render the unhappy person both more useful to himself, and to society\*.

\* It is a pity that these who have the missortume to be born blind, or who lose their sight when young, should be suffered to remain in ignorance, for to beg. This is both cruelty and want of cosmouny. There are many employments, of which blind persons are very capable, as kniting,

The eyes are hurt by viewing bright or luminous objects; keeping the head too long in a hanging posture, violent head-aches, excessive venery, the long use of bitters, the effluvia from acrid or volatile substances, various diseases, as the small-jox, n.e. sies, &c. but, above all, from night-watching, and candle light studies.—Long sasting is likewise burtful to the eyes, and trequent heats and colds are no less pernicious. The eyes are often burt by the stopage of customary evacuations, as morning sweats, sweating of the feet, the menses in women, and the bleeding piles in men. All kinds of excess are likewise hurtful to the sight, particularly the immoderate use of ardent spirits, and other strong liquors.

In all diseases of the eyes, especially those attended with inflamation, the cool regimen ought to be observed. The patient must abstain from all spiritous Equors. The smoke of tobacco, smoky rooms, the vapors of onicus and garlic, and all vivid lights and glaring colors, are carefully to be avoided. The drink may be water, whey, or small beer; and the aliment must be light, and of easy

digestion.

For preventing disorders of the eyes, issues and setons are of prime use. Every person whose eyes are tender, ought to have one or two of these in some part of the body. It will likewise be of use to keep the body gently open, and either to bleed or purge every spring and fall. All excess and night studies are to be avoided.—Such as do not choose a seton or an issue, will reap benefit from wearing a small Burgundy pitch plasser between their shoulders.

A gutta serena, or amaurosis, is an abolition of the sight, without any apparent cause or fault in the eyes. When it is owing to a decay or wasting of the optic nerve, it does not admit of a cure; but when it preceeds from a compression of the nerves, by redundant humours, these may in some measure be drained off, and the patient relieved. For this purpose, the body must be kept open with the laxative mercurial pills. If the patient be young, and of a sanguing habit, he may be bled. Cuping, with scatisfications on the back part of the head, will likewise be of use. A runing at the nose may be promoted by volatile salts, stimulating powders, &c. But the most likely means for relieving the patient, are issues or blisters

carding, turning a wheel, teaching languages, &c. Nor are inflances wanting of perfons who have arrived at the highest pitch of learning, without having the least idea of light. Writies the late samous Nicholas Sanderson, of Cambridge, and my worthy friend Dr. Thomas Blacklock of Edinburgh. The former was one of the first mathematicians of his age, and the latter, besides being a good feet and philosopher, is master of all the learned languages, and a very considerable adept in the liberal arts.

kept open for a long time on the back part of the head, behind the ears, or on the neck. I have known these restore sight, even after it had been for a considerable time lost.

Should these fail recourse must be had to the mercurial salivation—or what will perhaps answer the purpose better, twelve grains of the corrosive sublimate of mercury may be dissolved in an English pint and a half of brandy, and a table-spoonful of it taken twice a-day, drinking half a pint of the decoction of sarsaparilla after it.

A cataract is an obstruction of the pupil, by the interposition of some opaque substance which either diminishes or totally extinguishes the sight. It is generally an opacity of the crystalline humor. In a recent or beginning cataract, the same medicines are to be used as in the gutta serenz; and they will sometimes succeed. But when this does not happen, and the cataract becomes firm, it must be couched, or rather extracted. I have resolved a recent cataract by giving the patient frequent purges with calomel, keeping a poultice of fresh hembook constantly upon the eye, and a perpetual blister on the neck\*.

The myopia, or short sightedness, and the preshyopia or seeing only at too great a distance, are disorders which depend on the original structure or sigure of the eye, therefore admit of no cure. The inconveniencies arising from them may however be, in some measure remedied by the help of proper glasses. The former requires

the aid of a concave, and the latter of a convex glass.

A firabifinat, or fquinting, depends upon an irregular contraction of the mofeles of the eye, from a fpafm, palfy, epilepfy, or an ill habit. Children often contract this diforder by having their eyes unequally exposed to the light. They may likewise acquire it by unitation from as quinting nurse or play-fellow, &c. As this disorder can hardly be cured, parents ought to be careful to prevent it. Almost the only thing that can be done for it is to contrive a mosk for the child to wear, which will only permit him to see in a straight direction.

Spits, or specks on the eye are generally the effect of inflamation, and often appear after the small-pox, measles, or violent ophthalmias. They are very difficult to cure, and often occasion total blindness. If the specks are soft and thin, they may sometimes be taken off by gentle caustics and discutierts; as vitrol, the juice of celandine, &c. When these do not succeed, a surgical operation may be tried; the success of this however is always very doubtful.

<sup>\*</sup> In both these cases electricity merits a trial.

The blood-flot eye may be occasioned by a streke, a fall, retching, vomiting, violent coughing, &c. I have frequently known it stappen to children in the hooping cough. It appears at first like a bit of scarlet, and is afterwards of a livid or blackish colour. This disorder generally goes off without medicine. Should it preve obstinate, the patient may be bled, and have his eyes somented with a decocation of complier roots and older slowers. A soft poultice may be applied to the eyes; and the body should be kept open by gentle purgatives.

The watery or weeping eye, is generally occasioned by a relexation or weakness of the glandular parts of that organ.— These may be braced and strengthened by bathing the eye with brandy and water, Hungary water, rose water, with white vitriol dissolved in it, &c. Medicines which make a revulsion are likewise proper; as mild purgatives, perpetual blisters on the neck, bathing the feet frequently in luke warm water, &c.

When this disease proceeds from an obstruction of the lachrymat duct, or natural passage of the tears, it is called a fiftula lachrymalis, and can only be cured by a furgical operation\*.

#### OF THE EAR.

The functions of the ear may be injured by wounds, ulcers, or any thing that hurts its fabric. The hearing may likewife be hurt by excessive noise; violent colds in the head; severs; hard wax, or other substances sticking in the cavity of the car; too great a degree of moisture or dryness of the car. Deafness is very often the effect of old age, and is incident to most people in the decline of life. Sometimes it is owing to an original fault in the structure or formation of the ear itself. When this is the case it admits of no cure; and the unhappy person not only continues deaf, but, generally, likewise dumb, for lifet.

\* A weeping of watery eye is often the mark of a scrophulous labit.

† Though those who have the missorium to be born deaf are generally suffered to continue dumb, and consequently are in a great measure less to society, yet nothing is more certain than that such persons may be taught not only to read and write, but also to speak, and to understand what others say to them. Teaching the dung to speak will appear paradoxical to those who do not consider that the formation of sounds is merely mechanical, and may be taught without the assignment of the ear. This is not only capable of deep strainen, but it is actually reduced to practice by the ingenious thir. Thomas Braidwood of Edinburgh. This gentleman has, by the mere force of genius and application brought the teaching of darph persons to such a degree of person, that his scholars are generally more forward in their education than that his scholars

When deafness is the effect of wounds or ulcers of the ears, or of old age, it is not easily removed. When it proceeds from cold of the head, the patient must be careful to keep his head warm, especially in the night; he should likewise take some gentle purges, and keep his feet warm, and bathe them frequently in lukewarm water at hed time. When deafnels is the effect of a fever, it generally goes off after the patient recovers. If it proceeds from dry wax flicking in the ears, it may be festiened by droping oil into them; afterwards they must be fyringed with warm milk and water.

If deafness proceeds from drynels of the ears, which may be known by looking into them, half an ounce of the oil of fweet almonds, and the fame quantity of liquid apodeldoch, or tineture of asascerida, may be mixed together, and a few drops of it put into the ear every night at bed-time, stoping them afterwards with a little wool, or cotton. Some, instead of oil, put a small flice of the fat of bacon into each ear, which is said to answer the purpose very well. When the ears abound with moisture, it may be drained off by an issue or seton, which should be made as near the affected parts

as possible.

Some, for the cure of deafnefs, recommend the gall of an ecl, mixed with the spirits of wine, to be droped into the ear; others, equal parts of Hungary water, and spirits of lavender. Etmuller extols amber and musk; and Brooks says, he has often known hardness of hearing cured by puting a grain or two of musk into the ear with cotton-wool. But thefe, and other applications, must be

varied according to the cause of the disorder\*.

rubo enjoy all their faculties. They not only read and write with the utmost readiness, but likewise speak, and are capable of holding conver-Sation with any person in the light. What a pity one of the human species should remain in a state of idistism, who are capable of being rendered as useful and intelligent us others! We mention this not only from humanity to those who have the misfortune to be born deaf, but also in justree to Mr. Braidwood, whose success has far exceeded all former attempts in this way; and indeed it exected imagination itself so far, that no person who has not seen and examined his pupils, can believe what they are capable of. As this centleman, however willing, is not able to teach but feet, and as the far greater part of those who are born deaf cannot afford to attend there, it would be an aft of great humanity, as well as of great utility, to erect an academy for their benefit.

<sup>\*</sup> A gentleman, on whose veracity I can depend, told me, that after using nany things to no purpose, for an oblinate deafness, be was at last ad ifelt , p at a few drops of his own urine warm into his ears every night

Though such applications may sometimes be of service, yet they much oftener fail, and frequently they do hurt. Neither the eyes nor the ears ought to be tampered with; they are tender organs, and require a very delicate touch. For this reason what we would chiefly recommend in deafness, is, to keep the head warm. From whatever cause the disorder proceeds, this is always proper; and I have known more benefit from it alone, in the most obtainate cases of deafness, then from all the medicines I ever used.

#### OF THE TASTE AND SMELL.

Though these senses are not of so great importance to man in a state of society, as the sight and hearing; yet as the loss of them is attended with some inconveniency, they deserve our notice.—They are seldom to be restored when loss, which ought to make us very attentive to their preservation, by carefully avoiding whatever may in the least prove injurious to them. As there is very great affinity between the organs of tasting and smelling, whatever hurts the one, generally affects the other.

Luxury is highly injurious to these organs. When the nose and palate are frequently slimulated by fragrant and poignant dishes, they soon lose the power of distinguishing tastes and odours with any degree of nicety. Man, in a state of nature, may, perhaps,

have these faculties as acute as any other animal.

The sense of smelling may be diminished or destroyed by discases; as, the mossure, dryness, inflamation, or suppuration of that membrane which lines the inside of the nose, commonly called the observed membrane; the compression of the nerves which supply this membrane, or some fault in the brain ittels, at their origin. A deted, or too great a degree of folidity, of the small, spungy bones of the upper jaw, the caverns of the sorehead, &c. may likewise impair the sense of smelling. It may also be injured by a collection of social matter in those caverns, which keep constantly exhaling from them. Few things are more hurtful to the sense of smelling, than taking great quantities of snuff.

When the note abounds with moilture, after gentle evacuations, such things as tood to take off irritation, and coagulate the thin tharp ferum, may be applied; as the oil of anise mixed with fine flour; camphor diffolved in oil of almonds, &c. The vapors of amber, frankincense, gum mastic, and benjamin, may likewise be

received into the nofe and mouth.

and morning, from which he received great benefit. It is probable that a folution f fal ammoniac, in water, would produce the same effect.

<sup>\*</sup> An obstinate deafness has been cured by elistricity.

For moistening the mucus, when it is too dry, some recommend from made of the leaves of marjoram, mixed with the oil of amber, marjoram, and annifeed; or a sternutatory of calcined white vitriol, twelve grains of which may be mixed with two ounces of marjoram water, and siltrated. The steam or vapor of vinegar upon hot iron, received up the nostrils, is likewise of use for softening the mucus, opening obstructions, &c.

If there is an ulcer in the nose, it ought to be dressed with some emollient ointment, to which, if the pain be very great, a little laudinum may be added. If it be a venereal ulcer, it is not to be cured without mercury. In that case, the solution of the corrosive sublimate in brandy may be taken, as directed in the gutta serena. The ulcer ought likewise to be washed with it; and the sumes of cinna-

bar may be received up the nostrils.

If there be reason to suspect that the nerves which supply the organs of smelling are inert, or want stimulating, volatile salts, strong snuffs, and other things which occasion sneezing, may be applied to the nose. The forehead may likewise be anointed with bulsam of Peru, to which may be added a little of the oil of amber.

The taste may be diminished by crusts, filth, mucus, apthe, pellicles, warts, &c. covering the tongue; it may be depraved by a fact of the fativa, which, being discharged into the month, gives the same sensations as if the food which the person takes had really a bid rate; or it may be entirely destroyed by injuries done to the nerves of the tongue and palate. Few things prove more hurtful, either to the sense of tasting or smelling, than obstinate colds, especially those which affect the head.

When the taste is diminished by filth, mucus, &c. the tongue ought to be scraped, and frequently washed with a mixture of water, vinegar, and honey, or some other detergent. When the saliva is vitiated, which seldom happens unless in severs or other discases, the curing of the disorder is the curing of this symptom.—To relieve it, however, in the mean time, the solowing things may be of use: If there be a bitter taste, it may be taken away by vomits, purges, and other things which evacuate bile. What is called a nidorous taste, arising from putrid humors, is corrected by the juice of citrons, oranges, and other acids. A salt taste is cured by plentiful dilution with watery liquors. An acid taste is destroyed by absorbents, and alkaline salts, as powder of oyster-shells, falt of wormwood, &c.

When the fentibility of the nerves which supply the organs of taste is diminished, the chewing of horse-radish, or other disculating substances, will help to recover it.

## OF THE TOUCH.

The fense of touching may be hart by any thing that obstructs the nervous influence, or prevents its being regularly conveyed to the organs of touching; as pressure, extreme cold, &c. It may likewise be hart by too great a degree of sensibility, when the nerve is not sufficiently covered by the cuticle or scars-skin, or where there is too great a tension of it, or it is too delicate. Whatever disorders the function of the brain and nerves, hurts the sense of touching. Hence it appears to proceed from the same general causes as palsey and apoplexy, and requires nearly the seme method of treatment.

In a fluger, or defect of touching, which arises from an obstruction of the cutaneous nerves, the patient must first be purged; afterwards such medicines as excite the action of the nerves, or stimulate the system may be used. For this purpose, the spirit of hardhom, sal volatile oleofum, horse radish, &c. may be taken inwardly, the disordered paris at the same time, may be frequently rubed with fresh nettles or spirits of sal ammoniae. Blistering plasters and sinapsisms applied to the parts, will likewise be of use, as also warm bathing,

especially in the natural hot baths.

## C H A P. XLV.

## OF A SCIRRHUS AND CANCER.

A SCIRRHUS is a hard indolent tumor, usually feated in some of the glands, as the breasts, the arm-pits, &c. If the turor becomes large, unequal, of a livid, blackish, or leaden color, and is attended with violent pain, it gets the name of an occult cancer. When the skin is broken, and a fanies, or ichorous matter, of an abominable feetid smell is discharged from the fore, it is called an open or ulcerated cancer. Persons after the age of forty-five, particularly women, and those who lead an indolent sedamary lite, are

most subject to this disease.

CAUSES.—This disease is often owing to suppressed evacuations: hence it proves so frequently satal to werren of a gross habit, particularly old maids and wislows, about the time when the menstrual flux ceases. It may likewise be occasioned by excessive sear, grief, anger, religious melanchely, or any of the depressing passions. Hence the unfortunate, the cheloric, and those persons who devote themselves to a religious life in convents or monuteries, are often afflicted with it. It may also be eccasioned by the long continued use of tood that is too hard of digestion, or of an acrid

pature; by barrerness, celibacy, indolence, cold, blows, friction, pressure, or the like. Women often suffer from the last of these by means of their slays, which squeeze and compress their breast so as to occasion great mischief. Sometimes the disease is owing to

an hereditary disposition.

SYMPTOMS.—This disorder seems often very trising at the beginning. A hard tumor about the fize of a hazle-nut, or smaller is generally the first symptom. This will often continue for a long time without seeming to increase, or giving the patient great unsafines; but if the constitution be hurt, or the tumor irritated by pressure, or improper treatment of any kind, it begins to extend itself towards the neighbouring parts, by puthing out a kind of roots or limbs. It then gets the name of cancer, from a fancied resemblance between these limbs and the claws of a crab. The color of the skin begins to change, which is first red, afterwards purple, then blueish, livid, and at last black. The patient complains of heat, with a burning, gnawing, shooting pain. The termor is very hard, rough, and unequal, with a protuberance, or rang in the middle, its size increases daily, and the neighboring veins become thick, knotty, and of a blackish colour.

The skin at length gives way, and a thin sharp ichor begins to slow, which corrodes the neighboring parts till it forms a large unsightly ulcer. More occult cancers arise, and communicate with the neighboring glands. The pain and slench becomes intolerable, the appetite sails, the strength is exhausted by a continual hectic sever, at last, a violent hamorrhage, or discharge of bleed, from some part of the body, with faintings, or convulsion sits, ge-

nerally put an end to the miserable patient's life.

REGIMEN.—The diet ought to be light, but nourishing. All strong liquors, and high seasoned or saled provisions, are to be avoided. The patient may take as much exercise as he can easily bear; and should use every method to divert thought, and amuse his sancy. All kinds of external injury are carefully to be guarded against, particularly of the affected part, which ought to be defended from all pressure, and even from the external air, by covering it with for or soft slannel.

MEDICINE.—This is one of those discuses for which no certain remedy is yet known. Its progress however may sometimes be retarded, and some of its most disagreeable symptoms mitigated, by proper applications. One missortune attending the disease is, that the unhappy patient often conceals it too long. Were proper means used in due time, a cancer might often be cured; but after the disorder has arrived at a certain height, a generally sets all medicine at definince.

When a schirrhus tumour is first discovered, the patient ought to observe a proper regimen, and to take twice or thrice a-week a dose of the common purging mercurial pill. Some blood may also be let, and the part affected may be gently rubbled twice a-day with a-little of the mercurial ointment, and kept warm with tur or flannel. The food must be light, and an English pint of the decoction of woods or farfaparilla may be drank daily. I have some times difcuffed hard tumors, which had the appearance of begin-

nin cancers, by a course of this kind. Should the tumor however not yield to this treatment, but, on the contrary, become larger and harder, it will be proper to exilipate it, either by the knife or caustic. Indeed, whenever this can be done with fafety, the fooner it is done the better. It can answer no purpose to extirpate a cancer after the constitution is ruined, or the whole mass of the humors corrupted by it; this, however, is the common way, which makes the operation fo feldom fucceed Few people will submit to the extirpation till death stares them in the face; whereas, if it were done early, the patient's life would not be endangered by the operation, and it would generally prove a radical cure.

When the cancer is fo fituated that it cannot be cut off, or if the patient will not submit to the operation, such medicines as will mitigate or relieve the most urgent symptoms may be used. Dr. Home favs, that half a grain of the corrofive sublimate of mercury, diffolved in a proper quantity of brandy, and taken night and morning, will often be of service in cancers of the face and note. He likewise recommends an infusion of solanum, or night shade, in cancers of the breaft.

But the medicine most in repute at present for this disease is hemlock. Dr. Stock, physician at Vienna, has of late recommended the extract of this plant as very efficacious in cancers of every kind. The Doctor fays, he has given some hundred weights of it without ever hurting any body, and often with manifest advantage. He adviscs the patient, however, to begin with very small doses, as two or three grains, and to increase the dole gradually till some good effeel be perceived, and there to rest without further increase. From two or three grains at first, the doctor says he has increased the dose to two, three or four drams a-dry, and finds that fuch dofes may be continued for feveral weeks without any bad configuences.

The regimen which the doctor recommends during the use of the medicine, is to avoid brinaceons fubiliances not fermented, and too acrid arematics. He fave, good wine will not be hurtful to those who are accustomed to it, nor a moderate use of acids; and add, that the patient flould live in a pure tree air, and keep his raind as

quiet and cheerful as pollible.

The Doctor does not pretend to fix the time in which a cancer may be refolved by the use of hemlock, but says he has given it for above two years in large doses without any apparent benefit; nevertheless the patient has been cured by persisting in the use of it for half a year longer. This is at least encouragement to give it a fair trial. Though we are far from thinking the hemlock merits those extravagant encomiums which the Doctor has bestowed upon it, yet, in a disease which has so long bassled the boassed powers of medicine, we think it ought always to be tried.

The powder of hemlock is by some preserved to the extract. They are both made of fresh leaves, and may be used nearly in the same manner. Dr. Nicholson, of Berwick, says, he gradually increases the dose of the powder from a few grains to half a dram, and gave near four drams of it in the day with remarkably good effects. The hemlock may also be used externally either as a poultice or somentation. The sore may likewise be kept clean by injecting daily a strong decoction of the tops and leaves into it.

Few things contribute more to the healing of foul fordid ulcers of any kind than keeping them thoroughly clean. This ought never to be neglected. The best application for this purpose seems to be the carrot poultice. The root of the common carrot may be grated, and moinened with as much water as will bring it to the consistence of a poultice or cataplasm. This must be applied to the fore, and renewed twice a-day. It generally cleans the fore, eases the pain, and takes away the disagreeable small, which are objects of no small importance in such a dreadful disorder.\*

Wort, or the infusion of malt, has been recommended not only as a proper drink, but as a powerful medicine in this disease. It must be frequently made fresh, and the patient may take it at pleasure. Two, three, or even four English pints of it may be drank every day for a considerable time. No benefit can be expected from any medicine in this disease, unless it be persisted in for a long time. It is of too obstinate a nature to be soon removed; and when it admits of a cure at all, it must be brought about by inducing an almost total change of the habit, which must always be a work of time. Setons or issues in the neighbourhood of the cancer have sometimes good effects.

<sup>\*</sup> London Medical EsTays.

<sup>†</sup> In a cancer which had fet all medicines, and even surgery, at desiance, I lately saw remarkable effects from an obstinate perseverance in a course of antiseptics. I ordered the deep ulcers to be washed to the bottom by means of a syringe, twice or thrice a day, either with an infusion of the bark, or a decocition of carrot, and that the patient

When other medicines fail, recourse must be had to opicm, as a kind of solace. This will not indeed cure the disease, but it will ease the patient's agony, and render life more tolerable while it continues.

To avoid this dreadful disorder, people ought to use wholef me food; to take sufficient exercise in the open air; to be as easy and cheerful as possible; and carefully to guard against all blows, bruises, and every kind of pressure upon the breasts or other glandular parts.\*

# C H A P. XLVI. OF POISONS.

Livery person ought, in some measure, to be acquainted with the nature and cure of poisons. They are generally taken unawares, and their effects are often so sudden and violent, as not to admit of delay, or allow time to procure the assistance of physicians. Happily indeed no great degree of medical knowledge is here necessary; the remedies for most poisons being generally at hand, or easily obtained, and nothing but common prudence needful in the application of them.

The vulgar notion, that every poison is cured by some counterpoison, as a specific, has done much hurt. People believe they can do nothing for the patient, unless they know the particular antidote to that kind of poison which he has taken. Whereas the cure of all poisons taken into the stomach, without exception, de-

pends chiefly on discharging them as soon as possible.

should take four or five times a day, a glass of good wine, with half a dram of the best powdered bark in it. The seres, after being wasted, were likewise sprinkled with the same powder. When the patient began this course her again was daily expected. She continued it for almetwo years with manifest advantage; but being told by an eminent surgeon, that the bark would not even a cancer, and that the fores ought not to be washed, she discontinued the practice, and died in a few weeks. The course was not expected to cure the cancer, but to prolong the patient's life, which it evidently did abust to a miracle.

\* As hemlock is the principal medicine recommended in this disease, are would have given some directions for the gathering and preparing of that plant; but as its different preparations are now kept in the second we think it much suffer for the people to get t'em there, with stream his

restions for offer them.

There is no case wherein the indications of cure are more obvious. Poison is seldom long in the stomach, before it occasions sickness, with an inclination to vomit. This shews plainly what ought to be done. Indeed common sense distance to every one, that if any thing has been taken into the stomach which endangers life, it ought immediately to be discharged. Were this duly reagarded, the danger arising from poisons might generally be avoided. The method of prevention is obvious, and the means are in the hands of every one.

We shall not take up the reader's time with a detail of the ridiculous notions which have prevailed among ignorant people in different ages, with regard to poisons; neither shall we mention the boasted antedotes, which have been recommended either for preventing or obviating their essects; but shall content ourselves with pointing out the poisons most common in this country, and

the means of avoiding their dangerous confequences.

Poisons either belong to the mineral, the vegetable, or animal kingdom.

Mineral poisons are commonly of an acrid or corrolive quality;

arfenic, cobalt, the corrolive fublimate of mercury, &c.

Those of the vegetable kind are generally of a narcotic or stupefactive quality; as poppy, hemlock, hendane, berries of the deadly night-shade, &c.

Poisonous animals communicate their infection either by the bite or sting. This poison is very different from the former, and only produces its effects when received into the body by a wound.

MINERAL POISONS.—Arfenic is the mest common of this class; and, as the whole of them are pretty similar, both in their effects and method of cure, what is said with respect to it will be

applicable to every other species of corresive poison.

When a person has taken arsenic, he soon perceives a burning heat and a violent pricking pain in his stomach and bowels with an impoterable thirs, and an inclination to vomit. The tongue and throat feel rough and dry; and if proper means be not soon administered the patient is seized with great anxiety, bickuping, saintings, and coldness of the extremeties. To these succeed black vomits, social stools, with a mortification of the stomach and intestines, which are the immediate forerunners of death.

On the first appearance of these symptoms, the patient should drink large quantities of new milk and salad oil sill be vomits; or he may drink warm water mixed with oil. Fat broths are likewise proper, provided they can be got ready in time. Where no oil is to be had, tresh butter may be melted and mixed with milk or water. Taese things are to be drank as long as the inclination to

U a

vomit continues. Some have drank eight or ten quarts before the vomiting ceased; and it is never fase to leave off drinking while

one particle of the poison remains in the stomach.

These oily or fat substances not only provoke veniting, but likewise blunt the acrimony of the posson, and prevent its wounding the bowels; but if they should not make the person venit, has a dram or two scruples of the powder of specacuanba must be given, or a few spoonfuls of the oxymel or vinegar of squills may be mixed with the water which he drinks. Vomiting may likewise be excited by tickling the inside of the throat with a scather. Should these methods however fail, half a dram of white vitriol, or five or fix grains of emeric tartar, must be administered.

If tormenting pains are felt in the lower belly, and there is reafon to fear that the poison has got down to the intestines, clysters of milk and oil must be very frequently thrown up; and the patient must drink emollient decostions of barley, outmeal, marshmallows, and such like. He must likewise take an insusion of senna and manna, a solution of Glauber's salts, or some other purgative.

After the poison has been evacu ted, the patient ought for some time, to live upon such things as are of a healing and cooling quality; to abstain from slesh and all strong liquors, and to live upon milk, broth, gruel, light puddings, and other spoon meats of easy digestion. His drink should be barley water, linferd tea, or infusions of one of the mild mucilaginous vegetables.

VEGETABLE POISONS, besides heat and pain of the stomach, commonly occasion some degree of giddiness, and often a kind of stupidity or folly. Persons who have taken these poisens, must be treated in the same manner as for the mineral or corrosive.

Though the vegetable poisons, when allowed to remain in the stomach, often prove fatal; yet the danger is generally over, as soon as they are discharged. Not being of such a causic or corrosive nature, they are less apt to wound or instance the lowels than mineral substances: no time, however, ought to be soft in having them discharged.

Opium, being frequently taken by missake, merits particular attention. It is used as a medicine both in a solid and liquid form, which latter commonly goes by the name of laudanum. It is indeed a valuable medicine when taken in proper quantity, but as an over dose proves a strong poison, we shall point out its common effects,

together with the method of cure.

An over dose of opium generally occasions great drowfines, with supportant other apoplectic symptoms. Sometimes the perior has so great an inclination to sleep, that it is almost impossible to keep him awake. Every method must however be tried for this purpose. He should be tossed, shaked, and moved about. Sharp blistering

plasters should be applied to his legs or arms, and stimulating medicines, as falts of hartshorn, &c. held under his note. It will also be proper to let blood. At the same time every method must be taken to make him discharge the poison. This may be done in the manner directed above, viz. by the use of strong liquors, drinking plenty of warm water with oil, &c.

Mead, befides vomits, in this case, recommends acid medicines, with lixivial salts. He says, that he has often given salt of wormwood, mixed with juice of lemon, in repeated doses, with great

fuccess.

If the body should remain weak and languid after the poison has been discharged, neurishing diet and cordials will be proper; but when there is reason to fear that the stomach or bowels are instanced, the greatest circumspection is necessary, both with regard to food and medicine.

#### OF THE BITES OF POISONOUS ANIMALS.

We shall begin with the bire of a mad dog, as it is both the most

common and dangerous animal poison in this country.

The creatures naturally liable to contract this difease are, as far as we yet know, all of the dog kind, viz. foxes, dogs, and wolves. Hence it is called the *rabis canina*, or dog madness. Of the last, we have none in this island; and it so seldon happens that any perfon is bit by the first, that they scarce deserve to be taken notice of. If such a thing should happen, the mothod of treatment is precisely

the same as for the bite of a mad dog.

The fymptoms of madness in a dog are as follow: At first he looks dull, shews an aversion to food and company; he does not bank as usual, but seems to murmur, is peevish, and apt to bite strangers; his ears and tail droop more than usual, and he appears drowsy; afterwards he begins to loll out his tongue, and froth at the month; his eyes seem heavy and watery; he now, if not confined, takes off, runs panting along, with a kind of dejected air, and endeavors to bite every one he meets. Other dogs are said to sty from him.—Some think this a certain sign of madness, supposing that they know him by the smell; but it is not to be depended on. If he escapes being killed, he seldom runs above two or three days, till he dies, exhansted with heat, hunger, and satigue.

This disease is most frequent after long, dry, hot seasons, and such dogs as live upon putrid sticking carrion, without having enough of

fresh water, are liable to it.

When any person has been bit by a dog, the strictest enquiry ought to be made whether the animal was really mad. Ma ny disagreeable consequences arise from neglecting to ascertain this print. Some people have lived in continual anxiety for many years, because

they had been bit by a dog which they believed to be mad; but as he had been killed on the spot, it was impossible to ascertain the fact. This should induce us, instead of killing a dog the moment he has bit any person, to do all in their power to keep him alive, at least till

we can be certain whether he be mad or not.

Many circumstances may contribute to make people imagine a dog mad. He loses his master, runs about in quest of him, is set upon by other dogs, and perhaps by men. The creature, thus trightened, beat and abused, looks wild, and lolls out his tougue as he runs along. Immediately a crowd is after him, while he, finding himself closely pursued, and taking every one he meets for an enemy, naturally attempts to hite him, in self-defence. He soon gets knocked on the head, and it passes currently that he was mad, as it is then impos-

fible to prove the contrary.

This being the true history of by far the greater part of those dogs which pass for mad, is it any wonder that numberless whimsical medicines have been extolled for preventing the effects of their bite? This readily accounts for the great variety of infallible remedies for the bites of a mad dog, which are to be met with in almost every family. Though not one in a thousand has any claim to merit, yet they are all supported by numberless vouchers. No wonder that imaginary diseases should be cured by imaginary remedies. In this way, credulous people first impose upon themselves, and then deceive others. The same medicine which was supposed to prevent the effects of the bite, when the dog was not mad, is recommended to a person who has had the missfortune to be bit by a dog that was really mad. He takes it, trusts to it, and is undone.

To these mistakes we must impute the frequent ill success of the medicines used for preventing the effects of the bite of a mad dog. It is not owing so much to a defect in medicine, as to wrong applications. I am persuaded, if proper medicines were administered immediately after the bite is received, and continued for a sufficient length of time, we should not lose one in a thousand of those who

have the misfortune to be bit by a mad dog.

This poison is generally communicated by a wound, which nevertheless heals as soon as a common wound; but afterwards it begins to feel painful, and as the pain spreads towards the neighboring parts, the person becomes heavy and listless. His sleep is unquiet, with frightful dreams; he sighs, looks duil, and loves solitude—These are the forerunners, or rather the sitst symptoms of that dreadful disease occasioned by the bite of a mad dog.—But, as we do not propose to treat fully of the disease itself, but to point out the method of preventing it, we shall not take up time

in shewing its progress from its first invasion to its commonly fatal end.

The common notion, that this poison may lie in the body fer many years, and afterwards prove fatal, is both hursful and ridiculous. It must render such persons as have had the missortune to be bit very unhappy, and can have no good effects. If the person takes proper medicines for forty days after the time of his being bit, and seels no symptoms of the disease, there is reason to believe him out of danger.

The medicines recommended for preventing the effects of the bite of a mad dog, are chiefly such as promote the different secretions,

and antispasmedics.

Dr. Mead recommends a preventive medicine, which he fays he never knew fail, though in the space of thirty years he had used it a thousand times.

The doctor's prescription is as follows:

"Take ash-coloured ground liver-wort, cleaned, dried, and powdered, half an ounce; of black pepper powdered a quarter of an ounce. Mix these well together, and divide the powder into sour doses; one of which must be taken every morning fasting, for four mornings successively, in half an English pint of cow's milk warm.

"After these four doles are taken, the patient must go into the cold bath or a cold spring or river, every morning sesting, for a month; he must be dipped all over, but not stay in (with his head above water) longer than half a minute, if the water be very cold. After this he must go in three times a we a for a fortnight longer.

"The person must be bled before he begins to use the medi-

cine.\*'

We shall next mention the famous East-India specific, as it is called. This medicine is composed of cinnabar and musk. It is esteemed a great antispasmodic; and, by many, extolled as an infallible remedy for preventing the effects of the bite of a mad dog.

"Take native and factitious cinnabar, of each twenty-four grains, musk sixteen grains. Let these be made into a fine powder,

and taken in a glass of arrack or brandy."

\* Though we give this prescription on the credit of Dr. Mead, yet we would not advise any person, who has reason to believe that he has been bit by a dog which was really mad, to trust to it alone. Mead was an able physician, but he seems to have been no great philosopher, and was sometimes the dupe of his own credulity.

The fingle dole is faid to secure the person for thirty days, at the end of which it must be repeated; but if he has any symptoms of the disease, it must be repeated in three hours.

The following is likewife reckoned a good antispasmodic me-

dicine:

"Take of Virginia inake-root in powder half a dram, gum afafætida twelve grains, gum camphor feven grains, make these into a bolus with a little fyrnp of fasffron.

Camphor may also be given in the following manner:

"Take purified nitre half an ounce, Virginian snake-root in powder two drams, camphor one dram; rub them together in a

mortar, and divide the whole into ten dofes."

Mercury is likewife recommended as of great efficacy, both in the prevention and cure of this kind of madnefs. When used as a preventive, it will be sufficient to rub daily a dram of the ointment into the parts above the wound.

Vinegar is likewife of confiderable fervice, and should be taken

freely, either in the patient's food or drink.

These are the principal medicines recommended for preventing the effects of the bite of a mad dog. We would not however advise people to trust to any one of them; but from a proper combination of their different powers, there is the greatest reason to hope for success.

The great error in the use of these medicines lies in not taking them for a sufficient length of time. They are used more like charm, than medicines intended to produce any change in the body. To this, and not to it insufficiency of the medicines, we must impute

their frequent want of success.

Dr. Mead fays, that the virtue of his medicine confifts in promoting urine. But how a poison should be expelled by urine, with only three or four doses of any medicine, however powerful, it is not easy to conceive. More time is certainly necessary, even though the medicine were more powerful than that which the Doctor prescribes.

The East-India specific is still more exceptionable on this ac-

count.

As these, and most other medicines, taken fingly, have frequently been found to fail, we shall recommend the following course:

If a person is bit in a slethy part, where there is no hazard of hurting any large blood vessel, the parts adjacent to the wound may be cut away. But if this be not done from after the bite has been received, it will be better to omit it.

The wound may be dressed with fult and water, or a pickle made of vinegar and falt, and afterwards dressed twice a day with yellow

basilicon, mixed with red precipitate of mercury.

The patient should begin to use either Dr. Mead's medicine, or some of the others mentioned above. If he takes Mead's medicine, he may use it as the Doctor directs for sour days successively. Let him then omit it for two or three days, and again repeat the same number of doses as before.

During this course, he must rub into the parts about the wound, daily, one dram of the mercurial ointment. This may be done for

ten or tweive days at least.

When this course is over, he may take a purge or two, and wait a few days till the effect of the mercury be gone off. He must then begin to use the cold bath, into which he may go every morning for five or fix weeks. If he should feel cold and chilly for a long time after coming out of the cold bath, it will be better to use a tepid one, or to have the water a little warmed.

In the mean time, we would advise him not to leave off all internal medicines, but to take either one of the boluses of snake-root, as afascetida, and camphor; or one of the powders of nitre, camphor, and snake-root, twice a-day. These may be used during the whole

time he is bathing.

During the use of the mercurial ointment, the patient must keep

within doors and take nothing cold.

A proper regimen must be observed throughout the whole course. The patient should abstain from sless, and all salted and high-sea-soned provisions. He must avoid strong liquors, and live mostly upon a light and rather spare diet. His mind should be kept as easy and cheerful as possible, and all excessive heat and violent passes avoided with the utmost care.

I have never feen this course of medicine, with proper regimen, sail to prevent the hydrophobia, and cannot help again observing, that the want of success must generally be owing either to the application of improper medicines, or not using proper ones for a suf-

ficient length of time.

Markind are extremely fond of every thing that promifes a sudden or miraculous cure. By trusting to these they often lose their lives, when a regular course of medicine would have rendered them absolutely safe. This holds remarkably in the present case. Numbers of people, for example, believe if they or their cattle were once dipped in the sea, it is sufficient; as if the salt water were a charm against the effects of the bite. This, and such like whims, have proved satal to many.

It is a common notion, if a person be bit by a dog which is not mad, that, if he should go mad afterwards, the person would be affected with the disorder at the same time; but this notion is too tidiculous to deserve a serious consideration. It is a good rule, however to avoid dogs as much as pessible, as the disease is often

upon them for some time before its violent symptoms appear. The hydrophobia, has been occasioned by the bite of a dog which slice ed no other symptoms of the disease but listlessings and a sullen disease but listlessings.

polition.

Though we do not mean to treat fully of the cure of the hydrophobia, yet we are far from reckoning it incurable. The notion that this difeale could not be cured, has been productive of the must harrid confequences. It was usual either to abandon the unhappy persons, as soon as they were seized with the disease to their sate, to bleed them to death, or to suffocate them between matrasses or feather-beds, &c. This conduct certainly deserved the severest punishment! We hope, for the honour of human nature, it will never again be heard of.

I have never had an opportunity of treating this disease, and therefore can say nothing of it from my own experience; but the learned Dr. Tissot says, it may be cured in the following manner:

1. The patient must be bled to a considerable quantity; and this may be repeated twice, or thrice, or even a fourth time, if circumstances require it.

2. The patient should be put, if possible, into a warm bath; and

this should be used twice a-day.

3. He should every day receive two or even three emollient cly-flers.

4. The wound, and the parts adjoining to it, should be rubed with the mercurial ointment twice a-day.

5. The whole limb which contains the wound should be rubed

with oil, and be wrapped up in an oily flanuel.

6. Every three hours a dose of Cob's powder should be taken in a cup of the infusion of lime-tree and elder flowers. This powder is made, by rubing together in a mortar, to a very fine powder, of native and factitious cinnubar, each twenty-four grains; of musk, fixteen grains.\*

7. The following bolus is to be given every night, and to be repeated in the morning if the patient is not easy, washing it down with the infusion mentioned above: Take one dram of Virginian snake-root in powder, of camphor and asasociida, ten grains each,

<sup>\*</sup> The Ormskirk medicine, as it is called, seems to me to consist chiefly of cinnabar. Though it is said to be infallible, as a preventive, yet I would not advise any one to trust to it alone. Indeed it is ordered to be taken in a manner which gives it more the appearance of a charm than of a medicine. Surely if a medicine is to produce any change in the body, it must be taken for some considerable time, and it. It is interest quantity.

of opium, one grain; and with a fufficient quantity of conferve, or rob of elder, make a bolus.

8. If there be a great naufea at the stomach, with a bitterness in the month, thirty-five or forty grains of ipecacuanha, in powder, may be taken for a vomit.

9. The patient's food, if he takes any, must be light ; as pana-

do, foups made of farinaceous or mealy vegetables, &c.

10. If the patient should long continue weak, and subject to terrors, he may take half a dram of the Peruvian bark thrice a-day.

The next poisonous animal which we shall mention is the VI-PER. The grease of this animal rubbed into the wound is said to cure the bite.— Though that is all the viper-catchers generally do when bit, we should not think it sufficient for the bite of an enraged viper. It would surely be more safe to have the wound well sucked\*, and afterwards rubbed with warm sallad oil. A poultice of bread and milk softened with salad oil, should hkewise be applied to the wound; and the patient ought to drink freely of sinegar-whey, or water-gruel with vinegar in it, to make him sweat. Vinegar is one of the best medicines which can be used in any kind of poison, and ought to be taken very liberally. If the patient be sick, he may take a vernit. This course will be sufficient to cure the bite of any of the poisonus animals of this country.

With regard to poisonous insects, as the bee, the wasp, the hornet, &c. their stings are seldom attended with danger, unless when a person happens to be stung by a great number of them at the same time; in which case something should be done to abate the instantation and swelling. Some, for this purpose, apply honey, others lay pounded parsley on the part. A mixture of vinegar and Venice treacle is likewise recommended; but I have always found rubbing the part with warm salad oil succeed very well. Indeed, when the stings are so numerous as to endanger the patient's life which is sometimes the case, he must not only have all poultices applied to the part, but should likewise be bled, and take some cooling medicines, as nitre, or cream of tartar, and should drink

plentifully of diluting liquors.

<sup>\*</sup> The practice of fucking out poison is very ancient; and indeed nothing can be more rational. Where the hite cannot be cut out, this is the most likely way of extracting the poison. There can be no danger in performing this office, as the poison does no harm unless it be taken into the body by a wound. The person who sucks the wound ought havever to wash his mouth frequently with salad oil, which will secure him from oven the least inconveniency. The Psylli in Africa, and the Marie in Italy, were samed for curing the bites of poisonus animals by such as the sound; and we are told, that the Indians in North America practiff the some at this Lay.

It is the happiness of this island to have very few poisson us animals, and those which we have are by no means of the most viciont kind. Nine-tenths of the effects attributed to poisson or venom in this country, are really other diseases, and proceed from quite different causes.

We cannot however make the fame observation with regard to poisonous vegetables. These abound every where, and preve often smal to the ignorant and unwary. This indeed is chiefly owing to carel sness. Children ought early to be cautioned against easing any kind of srnit, roots, or berries, which they do not know, and all poisonous plants to which they can have access, ought, as far as possible, to be destroyed. This would not be so difficult a task as

some people imagine.

Poissonous plants have no doubt their use, and they cught to be prepagated in proper places; but, as they prove often destructive to cat le, they should be rooted out of all pasture grounds. They ou It likewise, for the safety of the human species, to be destroyed in the neighborhood of all towns and villages; which by the bye, are the places where they most commonly abound. I have seen the poisson us hemlock, thenbane, wolfsbane, and deadly night-shade, all growing within the environs of a small town, where though several persons, within the memory of those living in it, had lost their lives by one or other of these plants, yet no method, that I could hear of, had ever been taken to root them out; though this might be done at a very trisling expence.

Seldom a year passes but we have accounts of several persons point and by eating hemlock-roots instead of parsnips, or some kinds of songus which they had gathered for mushrooms. These examples of ght to put people on their guard with respect to the former, and to put the latter entirely out of use. Mushrooms may be a delicate dist, but they are a dangerous one, as they are generally gathered by persons who do not know one fort of sungus from another, and take every thing for a mushroom which has that appearance.

We might here mention many other plants and animals of a poifonous nature which are found in foreign countries; but, as our
observations are cliefly intended for this island, we shall pass these
over. It may not however be amiss to observe, for the benefit of
such of our countrymen as go to America, that an effectual remedy
is now said to be found for the bite of the rattle-snake.—The prefeription is as follows: Take of the roots of plantain and horehoun!,
in summer, roots and branches together, a sufficient quantity;—
bruise them in a mortar, and squeeze out the juice, of which give,
as seen as possible, one large specified; if the patient be swelled,
you must force it down his throat. This generally will core; but,
the firsts no relief in an hour after, you may give another spoon-

ful, which never fails. If the roots are dried they must be moistened with a little water. To the wound may be applied a leaf of

good tobacco moistened with rum.

We give this upon the faith of Dr. Brockes, who fays it was the invention of a negro; for the discovery of which he had his freedom purchased, and a hundred pounds per annum settled upon

him for life, by the general affembly of Carolina.

It is possible there may be in Nature specific remedies for every kind of possion; but as we have very little faith in any of these which have yet been pretended to be discovered, we shall be gleave again to recommend the most strict attention to the following rule, viz. That when any possionous substance has been taken into the strength, it ought, as soon as pessible, to be discharged by vomis, clysters, and purges; and, when possion has been received into the body by a wound, that it be expelled by medicines which promote the different secretions, especially those of sweat, unine, and insensible perspiration; to which may be joined antispasmodies, or such medicines as take off rension and irritation; the chief of which are opium, musk, camphor, and assisted.

## C H A P. XLVII.

## OF THE VENEREAL DISEASE.

In the first edition of this book the venereal disease was omitted. The reasons however which at that time induced me to leave it out, have upon more mature consideration vanished. Bad consequences, no doubt, may arise from ignorant persons tampering with medicine in this disorder; but the danger from that quarter spens to be more than balanced by the great and solid advantages, which must arise to the patient from an early knowledge of his cese, and an attention to a plan of regimen, which, if it does not come the disease, will be sure to render it more mild, and less huntful to the constitution.

It is peculiarly unfortunate for the unhappy perfors who contract this difease, that it lies under a fort of disprace. This renders difguise necessary, and makes the parient either conceal his disorder altogether, or apply to those who promise a sudden and secret cure; but who in fact only remove the symptoms for a time, while they fix the disease deeper in the habit. By this means a slight interestica, which might have easily been removed, is fosten converted into an

obilinate, and fometimes incureable malady.

Another unfavorable circumstance attending this disease is, that it assumes a variety of different shapes, and may with more propri-

ety be called an affemblage of difeases than a single one. No twodiseases can require a more different method of treatment than this does in its different stages. Hence the folly and dauger of trusting to any particular nostrom for the cure of it. Such nostroms are however generally administered in the same manner to all who apply for them, without the least regard to the state of the disease, the constitution of the patient, the degree of intection, and a thousand her circumstances of the utmost importance.

Though the venereal disease is generally the fruit of unlawful embraces, yet it may be communicated to the innocent as well as the guilty. Infants, nurses, midwives, and married women, whose husbands lead dissolute lives, are often affected with it, and frequently lose their lives by not being aware of their danger in due time. The unhappy condition of such persons will certainly plead our excuse if any excuse be necessary, for endeavoring to point out

the symptoms and cure of this too common diseasc.

To enumerate all its different symptoms, however, and to trace the disease minutely through its various stages, would require a much larger space than falls to this part of my subject; I shall therefore confine my observations chiefly to circumstances of importance, omitting such as are either trisling, or which occur but seldom. I shall likewise pass over the history of the disease, with the different methods of treatment which it has undergone since it was first introduced into Europe, and many other circumstances of a similar nature; all of which, though they might tend to amuse the reader, yet could afford him little or no insesul knowledge.

# OF THE VIRULENT GONORRHOEA.

The virulent gonorrhoea is an involuntary discharge of insectious matter from the parts of generation in either sex. It generally makes its appearance within eight or ten days after the insection has been received; sometimes indeed it appears in two or three days, and at other times not before the end of sour or five weeks. Previous to the discharge, the parameter feels an itching, with a small degree of pain, in the genitals. Afterwards a thin glary matter begins to distill from the urinary passage, which stains the linen, and occasions a small degree of titilation, particularly in the time of making water; this gradually increasing, arises at length to a degree of heat and pain, which are chiefly perceived about the extremity of the urinary passage, where a sight degree of redness and inflamation likewise begin to appear.

As the diforder advances, the pain, heat of urine, and running, increase, while fresh symptoms daily ensue. In men the erections become painful and involuntary, and are more frequent and lasting

then when natural. The fymptom is most troublesome when the patient is warm in bed. The pain which was at first only perceived towards the extremity, now begins to reach all up the urinary passage, and is most intense just after the patient has done making water. The runing gradually recedes from the color of seed, grows

yellow, and at length puts on the appearance of mucus.

When the diforder has arrived at its height, all the symptoms are more intense; the heat of urine is so great, that the patient dreads the making water; and though he feels a constant inclination this way, yet it is rendered with the greatest difficulty, and often only by drops: The involuntary erections now become extremely painful and frequent; there is also a pain, heat, and seuse of fulness about the seat, and the runing is plentiful and sharp, of a brown, greenish, and smetimes of a bloody color.

By a proper treatment, the violence of the fymptoms gradually abates, the heat of the urine goes off, the involuntary and painful erections, and the heat and pain about the feat, become easier, the runing are gradually decreases, grows whiter and thicker, till at

la : it entirele disappears.

By an inding to these symptoms, the gonorrheea may be generally distinguished from any other disease. There are however some sew disorders for which it may be mistaken, as an ulcer in the kidneys or bladder, the share other, or whites in women, &c. But in the torner of these, the matter comes away only with the urine, or when the spincter of the bladder is open; whereas in a genorrheea the discharge is constant. The latter is more difficult to distinguish, and must be known chiefly from its effects, as pain, communicating

the infection, &c.

REGIMEN.—When a person has reason to suspect that he has caught the venereal insection, he ought most strictly to observe a cooling regimen, to avoid every thing of a heating nature, as wines, spiritous liquors, rich staces, spiced, salted, high-seasoned, and smake-dried provisions, &c. as also all aromatic and stimulating vegetables, as onions, garlic, shallot, nutmeg, mustard, cinnamon, mace, ginger, and such like. His food ought chiefly to consist of mild respectables, milk, broths, light puddings, panado, gruels, &c. His drink may be barley water, milk and water, decoctions of marthmallows and liquorice, linsect tea, or clear whey. Of these he ought to drink plentitully. Violent exercise of all kinds, especially sixing on horseback, and venereal pleasures, are to be avoided. The patient must beware of cold, and when the inflamation is violent, he ought to keep his bed.

MidDICINE —A virulent gonorrheea cannot always be cured freedily and effectually at the fame time. The patient ought there are not to expect, nor the physician to promise it. It will often

continue for two or three weeks, and fometimes for five or fix, even

where the treatment has been very proper.

Sometimes indeed a flight infection may be carried off in a fow days, by bathing the parts in warm malk and water, and injecting frequently up the nrothra a little fucet oil or linfeed tea, about the warmth of new milk. Should these not succeed in carrying off the infection, they will at least have a tendency to lessen its virulence.

To effect a cure, however, aftringent is jections will generally be found necessary. These may be various ways prepared, but I think those made with the white vitrol are both most fase and efficacious. They can be made stronger or weaker as circumstances may require: but it is best to begin with the more gentle, and increase their power if necessary. I generally order a dram of white virial to be diffolved in eight or nine onnces of common or 10 fe waser, and an crdinary fyringe full of it to be thrown up three or four times a day. If this quantity does not perform a cure, it may be repeated, and the dofe, increased.\*

Whether injections be used or not, cooling purges are always proper in the gonorrheea. They ought not, however, to be of the ftrong or drastic kind. Whatever rastes a violent commotion in the body, increases the danger, and tends to drive the disease deeper into the habit. Procuring two or three stools every second or third day for the first fortnight, and the fame number every fourth or fit h day for the fecond, will generally be fufficient to remove the inflamatory fymptoms, to diminish the runing, and to change its color and confiftence. It gradually becomes more white and ropy as the viru-

lence abates.t

+ If the patient can swall wa folution of fait and manna, he may take fix drams, or, if his conflitution requires it, an ounce of the former, with half an ownce of the latter. Theje may be diffilted in an English tint of lailing water, we'ry, or thin water grad, and tal .n early in the

morning.

<sup>\*</sup> Although it is now very common to cure the gonorrhoa by offringent injections, there are fill many traditioners who do not approve this mode of practice. I can, however, from much experience, affert, that it is both the mist easy, elekant, and efficacious method of cure; and that any bad confequences arising from it must be owing to the ignorune or miscondust of the practitioner himself, and not to the remedy. Mary, for example, use strong preparations of lead, all of which are dangerous when applied to the internal furfaces of the body: others use escharotics, which inflame and injure the parts. I have keen a generobeen of wally cured by an injection made of green tea, and would will ys recommend centle methods where they will succeed.

When the inflamatory fymptoms run high, bleeding is always necessary at the beginning. This operation, as in other topical inflamations, must be repeated according to the strength and constitution of the patient, and the vehemence and urgency of

tle symptoms.

Medicines which promote the fecretion of urine, are likewise proper in this stage of the disorder. For this purpose, an ounce of nitre and two ounces of gum-arabic, pounded together, may be divided into twenty-four doses, one of which may be taken frequently in a cup of the patient's drink. If these should make him pass his urine so often as to become troublesome to him, he may either take them less frequently, or leave out the nitre altogether, and take equal parts of gum-arabic and cream of tartar. These may be pounded together, and a tea-spoonful taken in a cup of the patient's drink four or five times a day. I have generally found this answer extremely well both as a diurctic, and for keeping the body gently open.

When the pain and inflamation are feated high towards the neck of the bladder, it will be proper frequently to throw up an emollient clyfter, which, befides the benefit of procuring flools, will

ferve as a fomentation to the inflamed parts.

Soft poultices, when they can conveniently be applied to the parts, are of great fervice. They may be made of the flour of linfeed, or of wheat-bread and milk, foftened with fresh butter or sweet oil. When poultices cannot be conveniently used, cloths wring out of warm water, or bladders filled with warm milk and water may be applied. I have often known the most ex-

If an infusion of Juna and tamarinds be more agreeable, two drams of the former, and an ounce of the latter, may be insused all night in an English pint of boiling water. The insustant may be strained next morning, and half an ounce of Glauber's fulls dessived in it. A tea cupful

of this infusion may be taken every half hour till it operates.

Should the patient prefer electuary, the following will be found to anfiver very well. Take of the lentitive electuary four ounces, cream of tartar two ounces, jallap in powder two drams, rhubard one dram, and as much of the fyrup of pale roses as will serve to make up the whole into a soft electuary. Two or three tea spoonfuls of this may be taken over inget, and the same quantity next morning, every day that the patient chooses to take a purge.

The difes of the above medicines may be increased or diminished according as the patient study it necessary. We have ordered the falls to be distributed in a large quantity of water, because it renders their opera-

tion more mild.

cruciating pains, during the inflamatory state of the generalice,

relieved by one or other of these applications.

Few things tend more to keep off inflamation in the specimatic vessels, than a proper truss for the scrottim. It ought to be se contrived as to support the testicles, and should be worn from the first

appearance of the disease till it has ceased some weeks.

The above treatment will fometimes remove the general cea so quickly, that the person will be in doubt whether he really laboured under that disease. This, however, is too savourable a turn to be often expected. It more frequently happens that we are able only to procure an abatement or remission of the inflamatory symptoms, so far as to make it safe to have recourse to the great anti-dote mercury.

Many people, on the first appearance of a gonorrhoea sty to the use of murcury. This is a bad plan. Mercury is often not at all necessary in a gonorrhoea; and when taken too early, it does mischief. It may be necessary to complete the cure, but can never be

proper at the commencement of it.

When bleeding, purging, fomentations, and the other things recommended above, have eased the pain, softened the pulse, relieved the heat of urine, and rendered the involuntary erections less frequent, the patient may begin to use mercury in any form that is

least disagreeable to him.

If he takes the common mercurial pill, two at night and one in the morning will be a sufficient dose at first. Should they affect the mouth too much, the dose must be lessened; if not at all, it may be gradually increased to five or six pills in the day. If calomel be thought preserved, two or three grains of it, sormed into a bolus with a little of the conserve of hips, may be taken at bed-time, and the dose gradually increased to eight or ten grains.

One of the most common preparations of mercury now in use is the corrosive sublimate. This may be taken in the manner afterwards recommended under the confirmed lines or pox. I have always found it one of the most safe and efficacious medicines when

properly used.

The above medicines may either be taken every day or every other day, as the patient is able to bear them. They ought never to be taken in such quantity as to raise a salivation, unless in a very slight degree. The discase may be more safely, and as certainly, cured without a salivation as with it. When the mercury runs off by the mouth, it is not so successful in carrying off the disease, as when it continues longer in the body, and is discharged gradually.

Should the patient be purged or griped in the night by the mercury, he must take an infusion of sense, or some other pur wive, and drink freely of water-gruel to prevent bloody stools, which are very apt to happen should the patient catch cold, or if the mercury has not been duly prepared. When the bowels are weak, and the mercury is apt to gripe or purge, these disagreeable configuences may be prevented by taking, with the above pills or bolus, halt a dram or two scruples of diascordium; or of the japonic confection.

To prevent the difagreeable circumstance of the mercury's affecting the mouth too much, or bringing on a fallvation, it may be combined with purgatives. With this view the laxative mercurial pill has been contrived, the usual dose of which is half a dram, or three pills, night and morning, to be repeated every other day; but the later way is for the patient to begin with two, or even with one pill, gradually increasing the dose.

To such persons as can neither swallow a bolus nor a pill, mercury may be given in a liquid form, as it can be suspended even in a watery vehicle, by means of gum-arabic; which not only serves this purpose, but likewise prevents the mercury from affecting the

mouth, and renders it in many respects a better medicine.\*

It happens very fortunately for those who cannot be brought to take mercury inwardly, and likewife for perfons whose bowels are too tender to bear it, that an external application of it will answer equally well, and in some respects better. It must be acknowledged, that mercury, taken inwardly for any length of time, greatly weakens and disorders the bowels; for which reason, when a plentiful use of it becomes necessary, we would prefer rubing to the irercarial pills. The common mercurial or blue cintment will answer very well. Of that which is made by rubing together equal quantities of hog's lard and quickfilver, about a dram may be used at a time. The best time for rubing it on, is at night; and the most proper place, the inner part of the thighs. The patient should fland before the fire when he rubs, and thould wear flannel drawers next his fkin, at the time he is using the ointment. If ointment of a weaker or ftronger kind be used, the quantity must be increased or din inthe d in proportion.

If, during the use of the ointment, the inflamation of the genital parts, together with the heat and severishness, should return,

<sup>\*</sup> Take quickfilver one dram, gum arabic reduced to a mucilage two drawn: Let the quickfilver be rubed with the mucilage, in a warble morter, until the globules of mercury entirely disappear; ofterwards add gradually, fill continuing the trituration, half an ounce of buyanne syron, and eight owness of fingle cinnamon water. Two table spoonfalls of the state of may be taken night and marriage. Some recken this the both town is volice qualificure can be exhibited, for the cure of a source of

or if the mouth should grow sore, the gums tender, and the lier'h become offensive, a dose or two of Glauber's salts, or some over cooling purge, may be taken, and the rubing intermited for a tew days. As soon, however, as the signs of spiting are gone off, if the virulency be not quite corrected, the ointment must be repeated, but in smaller quantities, and at longer intervals than before.—Whatever way mercury is administered, its use must be persisted in

as long as any virulency is suspected to remain.

During this, which may be called the second stage of the disorder, though so strict a regimen is not necessary as in the first or instanatory state, yet intemperance of every kind must be avoided. The food must be light plain, and of easy digestion; and the greatest induscence that may be allowed with respect to drink is, a little wir, diluted with a sufficient quantity of water. Spiritous liquors are to be avoided in every shape. I have often known the instanatory symptoms renewed and heightened, the runing increased, and the cure rendered extremely difficult and tedious, by one fit of excessive drinking.

When the above treatment has removed the heat of urine, and foreness of the genital parts; when the quantity of runing is confiderably lessened, without any pain or swelling in the groin or testicle supervening; when the patient is free from involuntary erections; and lastly, when the runing becomes pale, whitish, thick, void of ill smell, and tenevicus or ropy; when all or most of these symptoms appear, the genortheea is arrived at its last stage, and we may gradually proceed to treat it as a gleet with astringent and agglutinating

miedicines.

## OF GLEETS.

A general sea frequently repeated, or improperly treated, often ends in a gleet, which may either proceed from a relaxation, or from forme remains of the disease. It is however of the greatest importance in the cure of the gleet, to know from which of these causes it proceeds. When the discharge proves very obstinate, and receives little or no check from aftringent remedies, there is ground to suspect that it is owing to the latter; but if the drain is inconstant, and is chiefly observable when the patient is stimulated by lastivious ideas, or upon straining to go to stool, we may reasonably conclude that it is chiefly owing to the former.

In the cure of a gleet proceeding from relaxation, the principal design is to brace, and restore a proper degree of tension to the debilitate. In relaxed vessels. For this purpose, besides the medicines recommended in the genorthous, the patient may have recounte to

Aronger and more powerful astringents, as the Peruvian bark,\* alum, virial, galls, tormentil, histort, baldustines, tincture of good kino, &c. The injections may be rendered more astringent by the addition of a few grains of alum, or increasing the quantity

of vitriol as far as the parts are able to bear it.

The last remedy which we shall mention in this place is the cold bath, than which there is not perhaps a more powerful bracer in the whole compals of medicine. It ought never to be omitted in this species of gleet, unless there be something in the constitution of the patient which renders the use of it unsafe. The chief objections to the use of the cold bath are a full habit, and an unsoun! state of the viscers. The danger from the former may always be lessened, if not removed, by purging and bleeding; but the latter is an infurmountable obstacle, as the pressure of the water, and the fudden contraction of the external veffel, by throwing the blood with two much force upon the internal parts, are apt to occasion ruptures of the vessels, or a flux of humors upon the diseased organs. But where no objection of this kind prevails, the patient ought to plunge over head in water every morning fasting, for three or four weeks together. He should not however stay long in the water, and should take care to have his skin dried as soon as he comes out.

The regimen proper in this case is the same as was mentioned in the last stage of the genorebeen: the diet must be drying and aftringent, and the drink Spa, Pyranout, and Bristol waters, with which a little claret or red wine may sometimes be mixed. Any person may now afford to drink these waters, as they can be every where prepared at almost no expence, by a mixture of common chalk and

oil of vitriol.

When the gleet does not in the smallest degree yield to these medicines, there is reason to suspect that it proceeds from ulcers. In this case recourse must be had to mercury, and such medicines as tend to correct any predominant acrimony with which the junces may be affected, as the decoction of China, sarsaparilla, sassaffaras, or the like.

Mr. Fordyce fays, he has feen many obstinate gleets, of two, three, or four years standing, effectually cured by a mercurial in-

\* The Peruvian bark may be combined with other astringents, and

prepared in the following manner:

Take of Peruvian bank bruifed fix drams, of fresh galls bruised two drams; boil them in a pound and a haif of water to a pound: to the strained liquor add three ounces of the simple tinesure of the wark. A small tea-expful of this may be taken three times a day, adding to each eap listeen or twenty drops of the acid elixir of vatriol.

uncliot, when almost every other medicine has been tried in vain. Dr. Chapman seems to be of the same opinion; but says, he has always found the mercury succeed best in this case when joined with terebinthinate and other agglutinating medicines. For which reason the doctor recommends pills made of callomel and Venice turpentine;\* and desires that their use may be accompanied with a de-

coction of guaiacum or farfaparilla.

The last kind of remedy which we shall mention for the cure of ulcers in the urinary passage, are suppurating candles or bougies: as these are prepared various ways, and are generally to be bought ready made, it is needless to spend time in enumerating the different ingredients of which they are composed, or teaching the manner of preparing them. Before a bougie be introduced into the methra, however, it should be sineared all over with sweet oil, to prevent it from stilmulating too suddenly; it may be suffered to continue in from one to seven or eight hours, according as the patient can bear it. Obstinate ulcers are not only often healed, but tumors and excrescences in the urinary passage taken away, and an obstruction of urine removed by means of bougies. Obstinate gleets may be removed by the use of bougies.

## OF THE SWELLED TESTICLES.

The fwelled tefficles may either proceed from infection lately contracted, or from the venereal poifon lurking in the body; the latter indeed is not very common, but the former frequently happens both in the first and second stages of a gonorrheat: particularly when the runing is unseasonably checked, by cold, hard drinking, strong drastic purges, violent exercise, the too early use of assimplement medicines, or the like.

In the inflamatory stage bleeding is necessary, which must be repeated according to the urgency of the symptoms.† The food must be light, and the drink diluting. High-seasoned food, stesh, wines, and every thing of a heating nature, are to be avoided. Fomentations are of singular service. Poultices of bread and milk, softened with fresh butter or oil, are likewise very proper, and ought constantly to be applied when the patient is in bed; when he

† I have been accustomed for some time past, to apply leeches to influenced testicles, which practice has always been followed with the most happy effects.

<sup>\*</sup> Take Venice turpentine boiled to a sufficient degree of hardness, half an ounce, calemel half a dram. Let these be mixed and formed into sixty pills, of which five sr six may be taken night and morning. If, during the use of these pills, the mouth should grow fore, or the breath become effensive, they must be discontinued till these symptoms disappear.

is up, the testicles should be kept warm, and supported by a bag or trafs, which may easily be contrived in such a manner as to prevent

the weight of the tellicles from having any effect.

Il it should be found imprassicable to clear the testicles by the cooling regimen now pointed out, & extended according to circumstances, it will be necessary to lead the patient through such a compiece autivenereal courte as shall enture him against any future uneasiness. For this purpose, besides rubing the mercurial ointment on the thighs, as directed in the gonorrhou, the patient must be confined to bed, if necessary, tor five or fix weeks, sulpending the testicle all the while with a bag or truss, and plying him inwardly with strong decoctions of sarfaparilla.

When their means do not succeed, & there is reason to susped a scrophulous or cancerous habit, either of which may support a scirrhus induration, after the venereal poison is corrected, the parts should be so nented daily with a decoction of hemlock, the bruited leaves of which may likewife be added to the poultice, and the extract at the same time taken inwardly\*. This practice is strongly recommended by Dr. Stork in scirrhus and cancerous cases; & Me. Fordyce affures us, that by this method he has cured difeafed tefficies of two or three years standing, even when ulcerated, and when the scirrhus had begun to be affected with pricking and lancing pains.

#### OF BUBOES.

Venereal buboes are hard tumors feated in the groin, occasioned by the venereal poison lodged in this part. They are of two kinds, viz. such as proceed from a recent insection, and such as

eccompany a confirmed lues.

The cure of recent buboes, that is, fuch as appear foon after impure coition, may be first attempted by dispersion, and if that thould not succeed, by supuration. To promote the dispersion of a bubo, the same regimen must be observed as was directed in the first stage of a gonorrhoes. The patient must likewise be bled, & take fome cooling purges, as the decocion of tamarinds and fenna, Glauber's falts, and the like. If, by this course, the swelling and other inflamatory symptoms abate, we may fafely proceed to the ule of mercury, which must be continued till the venereal virus is quite funduedt.

<sup>\*</sup> The extract of hemlock may be made into pills, and taken in the manner directed under the article Cancer.

<sup>†</sup> For the dispersion of a bubo, a number of backes applied to the part effected will be found equally efficacious as in the inflamed testicles.

But if the bubo should from the begining, be attended with great best, pain, and pulsation, it will be proper to promote its supuration. For this purpose the patient may be allowed to use his ordinary dier, and to take now and then a glass of wine. Emollisent estaplasms, confishing of bread and milk softened with oil ar fresh butter, may be applied to the part; in cold constitutions, where the tumor advances slowly, white lilly roots boiled, or sixed onions raw, and a sufficient quantity of yellow basilicen, may be added to the poultice.

When the tumor is ripe, which may be known by its conical figure, the foftness of the skin, and a fluctuation of matter plainly to be felt under the finger, it may be opened either by a caustic, or

a lancet, and afterwards dreffed with olgestive ointment.

It formetimes however happens, that huboes can neither be disputed nor brought to a supuration, but remain hard indocut tomors. In this case the inducated glands must be contained by caustics; if they should become scirrhus, they must be disolved by the application of becalock, both externally and internally, as directed in the schirrhus testicle.

#### OF CHANCRES.

Chances are superficial, callous, enouguleers; which may happen either with or without a gonorrhoea. They are commonly seated about the glands, and make their appearance in the following manner: First a little red pimple arises, which soon becomes pointed at top, and is filled with a whitish master including to yellow. This pimple is hot, and nother generally before it breaks; afterwards it degenerates into an obstincte ulter, the bottom of which is usually covered with a viscid mucus, and whole edges gradually become hard and callous. Sometimes the first appearance resembles a simple exceptation of the caticle: which however, if the case be venereal, soon becomes a true chance.

A chancre is fometimes a primary affection, but it is much oftener tymptomatic, and is the mark of a confirmed lives. Polinary chancers discover themselves soon after impure collinou, and are generally sezted in parts covered with a thin cutile, as the lips,

the nipples of women, the glans penis of men. &: \*

When venereal ulcers are feated in the lips, the infection may be communicated by kiffing. I have feen very obstinate venereal ulcers in the Vps, which I had all the reason in the world to believe were communica-

ted in this manner.

\*Nurses ought to beware of suckling intested children, or having their breasts drawn by persons tainted with the venereal disasse. This caution is peculiarly needs are for nurses who reside in the neighborhood of great towns.

When a chance appears soon after impure coition, its treatment is nearly similar to that of the virulent gonorrhoa. The patient must observe the cooling regimen, lose a little blood, and take some gentle doses of salts and manna. The parts affected ought frequently to be bathed, or rather soaked, in warm milk and water, and, if the inflamation be great, an emollient poultice or cataplasm may be applied to them. This course will, in most cases, be sufficient to abate the inflamation, and prepare the patient for the use of mercury.

Symptomatic chancres are commonly accompanied with ulcers in the throat nocturnal pains, fourly eruptions about the roots of the hair, and other fymptoms of a confirmed lues. Though they may be feated in any of the parts mentioned above, they commonly appear upon the private parts, or the infide of the thigh. They are also lars painful, but frequently much larger and harder than primary chancres. As their cure must depend upon that of the pox, of which they are only a fymptom, we shall take no surther notice of

them, till we come to treat of a confirmed lens.\*

Thus we have related most of the symptoms which accompany or succeed a virulent genortheea, and have also given a short view of their proper treatment; there are, however, several others which sometimes attend this disease, as a strangury or obstruction of urine,

a phymofis, paraphymofis, &c.

A strangury may be occasioned either by a spalmodic constriction, or an inflamation of the urethra, and parts about the neck of the bladder. In the former case, the patient begins to void his urine with tolerable ease; but as soon as it touches the galled or influend urethra, a sudden constriction takes place, and the urine is voided by spurts, and sometimes by drops only. When the strangury is owing to an inflamation about the neck of the bladder, there is a constant heat and unexsiness of the part, a perpetual defire to make ways, while the patient can only render a few drops, and a troublesome tenesmus, or constant inclination to go to stool.

When the strangury is owing to spasse, such medicines as tend to dilute and blunt the salts of the unine will be proper. For this purpose, besides the common diluting liquers, soft and cooling emulsions, sweetened with the syrup of poppies, may be used.

<sup>\*</sup> I have found it answer extremely well to sprinkle chances twice a day with calomel. This will often perform a cure without any other application whatever. If the chances are upon the glands, they may be washed with milk and water, a little warm, and afterwards the ealoned may be applied as above.

Should these not have the desired effect, bleeding, and emollient

fomentations, will be necessary.

When the complaint is evidently owing to an inflamation about the neck of the bladder, bleeding must be more liberally performed, and repeated according to the urgency of the fyr prems. After bleeding, if the strangury still continues, soft clysters, with a proper quantity of landamin in them, may be admiristered. and emollicat fomentations applied to the region of the bladder. At the same time the patient may take every four hours a tea. cupful of barley-water, to an English pint of which he ownces of the fyrup of marshmallow, four ounces of the oil of lweet almonds, and halt an ounce of nitre, may be added. If these remedies should not relieve the complaint, and a total suppression of urine should come on, bleeding must be repeated, and the patient fet into a warm bath up to the middle. It will be proper in this case to discontinue the diuretics, and to draw off the water with a catheter; but as the patient is feldom able to bear its being introduced, we would rather recommend the use of mild bougies. These often lubricate the passage, and greatly facilitate the discharge of urine. Whenever they begin to stimulate or give any uneafiness, they may be withdrawn.

The phymesis is such a constriction of the propuce over the glands, as hinders it from being drawn backwards; the paraphymesis, on the contrary, is such a constriction of the prepuce behind the glands.

as hinders it from being brought forward.

The treatment of these symptoms so nearly the same with that of the virulent gonorthea, that we have no occasion to enlarge upon it. In general, bleeding, purging, poultices, and emollient somentations are sufficient. Should these, however, fail of removing the stricture, and the parts be threatened with a mortification, twenty or thirty grains of ipecacuanha, and one grain of one tic tartar, may be given for a vomit, and may be worked off with

warm water or thin gruel.

It fometimes happens, that, in spite of all endeavors to the contrary, the inflamation goes on, and symptoms of a beginning mortification appear. When this is the case, the prepute must be scarified with a lancet, and, if necessary, divided, in order to prevent a strangulation, and set the impulsoned glands at liberty. We shall not describe the manner of performing this operation, as it ought always to be done by a surgeon. When a mortification has actually taken place, it will be necessary, besides performing the above operations, to soment the parts frequently with cloths wrong out of a strong decoction of camomile slowers and bank, and to give the patient a dram of the bank in powder every two or three hours.

With regard to the priapifm, chorde, and other differious of the penis, their treatment is no way different from that of the gonorthesa. When they prove very troublesome, the patient may take a few drops of landanum at night, especially after the operation of a paregative through the day.

## OF A CONFIRMED LUES.

We have hitherto treated of those affections in which the vencreal poison is supposed to be confined chiesly to the particular part by which it was received, and shall next take a view of the lues in its confirmed state; that is, when the poison is actually received into the blood, and, circulating with it through every part of the body, mixes with the several secretions, and renders the whole habit tainted.

The symptoms of a confirmed lues are, buboes in the groin, pains of the head and joints, which are peculiarly troublesome in the night, or when the patient is warm in bed; scabs and scurfs in various parts of the body, especially on the head, of a yellowish color, resembling a honey-comb; corroding ulcers in various parts of the body, which generally begin about the throat, from whence they creep gradually, by the palate, towards the cartilage of the nofe, which they destroy; excrescences or exostoses arise in the middle of the bones, and their spongy ends become brittle, and break upon the least accident; at other times they are soft, and bend like wax; the conglobate glands become hard and callous, and form, in the neck, armpits, groins, and mefentery, hard, moveable tumors, like the king's evil; tumors of different kinds are likewife formed in the lymphatic vessels, tendons, ligaments, and nerves, as the gummata, ganglia, nodes, tophs, &c. the eves are affected with itching, pain, reducts, and fometimes with total blindness, and the ears with a finging noise, pain, and deafness, whilst their internal substance is exulcerated and rendered carious; at length all the animal, vital, and natural functions are depraved, the face becomes pale and livid, the body entaciated and unfit for motion, and the miferable patient falls into an atrophy, or wasting consumption.

Women have fymptoms peculiar to the fex, as chancres in the breaft, a suppression or overflowing of the menses, the whites, hysteric affections, an inflamation, abscess, scirrhus, gangrene, or aleer of the womb: they are generally either barren, or subject to abortion; or, if they bring children into the world, they have an univer-

fal cryfipelas, are half rotten, and covered with olcers.

Such is the catalogue of fymptoms attending this dreadful disease in its confirmed state. Indeed, they are seldom all to be met with in the same person, or at the same time; so many of them, how-

ever, are generally present as are sufficient to alarm the patient; and if he has reason to suspect the insection is lanking in his body, he ought immediately to set about the expulsion of it, otherwise the

most tragical consequences will ensue.

The only certain remedy hitherto known in Europe, for the cure of this difease, is mercury, which may be used in a great variety of forms, with nearly the same success.\* Sometime ago is was recknowed impossible to cure a confirmed lines without a falivation. This method is now however pretty generally laid asside, and mercury is found to be as efficacious, or rather more so, in expelling the venereal poison, when administered in such a manner as not to run off by the salivary glands.

Though many are of opinion, that the mercurial ointment is as efficacious as any other preparation of that mineral; yet experience has taught me to think otherwife. I have often feen the most obstinate venereal cases, where great quantities of mercurial ointment had been used in vair, yield to the saline preparations of mercury. Nor am I singular in this opinion. Mr. Clare, an eminent surgeon of this city, assures me, that for some time past he has employed, in tenereal cases, a saline preparation of mercury with most happy success. This preparation, subsed with a sufficient quantity of any sailed powder, he applies, in small portions, to the tongue, where, with a gentle degree of friction, it is immediately absorbed, and produces its full effect upon the system, without doing the least injury to the stomach or bowels; a matter of the greatest importance in the application of this most powerful remedy.

It is impossible to ascertain either the exact quantity of medicines that most be taken, or the time they ought to be continued, in order to perform a cure. These will ever vary according to the constitution of the patient, the season of the year, the degree of insection, the time it has ledged in the body, &c. But though it is difficult, as Astruc observes, to determine a priori, what quantity of mercury will, in the whole, be necessary to cure this different completely; yet it may be judged of a posseriori, from the abatement and ceasing of the symptoms. The same author adds, that commonly not less than two ounces of the strong mercurial ointment is sufficient, and

not more than three or four ounces necessary.

The only chemical preparations of mercury which we shall take notice of, is the corrolive sublimate. This was some time ago brought into use for the venereal disease, in Germany, by the illustrious Baron Van Swieten; and was soon after introduced into Britain by the learned Sir John Pringle, at that time physician to the

<sup>\*</sup> The preparations which I now chiefly use, in the confirmed lucs, are calonel and calcined mercury.

aray. The method of giving it is as follows: One grain of corrotive fublimate is diffolved in two onness of French brandy or malt spirits; and of this solution, an ordinary table spoonful, or the quantity of half an ounce, is to be taken twice a-day, and to be continued as long as any symptoms of the disorder remain. To those whose stomach cannot bear the solution, the sublimate may be given in form of pill\*.

Several roots, woods, and barks, have been recommended for curing the venereal disease; but none of them have been found upon experience, to answer the high encomiums which had been bestowed upon them. Though no one of these are to be depended upon alone, yet when joined with mercury, some of them are found to be very beneficial in promoting a cure. One of the best we know yet is sarsaparilla, which may be prepared and taken ac-

cording to the directions in the appendixt.

The mezereon root is likewise found to be a powerful assistant to the sublimate or any other mercurial. It may either be used along with the surfaparilla, as directed in the appendix, or by an ounce of the fresh bark, taken from the root, in twelve English pints of water to eight, adding towards the end an ounce of liquorice. The dose of this is the same as of the decoction of tarsaparilla.

We have been told that the natives of America cure the venereal disease, in every stage, by a decoction of a root of a plant called the Lobelia. It is used either tresh or dried; but we have no certain accounts with regard to the proportion. Sometimes they mik other roots with it, as those of the rannoculus, the ceanothus, &c. but whether these are designed to disguise or assistant, is doubtful. The patient takes a large draught of the decoction early in the morning, and communes to use it for his ordinary drink through the days.

+ See Appendix, Decocion of Surlaparille.

<sup>\*</sup> The sublimate may be given in distilled water, or any other liquid that the patient chooses. I commonly order ten grains to be dissilved in an ounce of the spirit of wine, for the convenience of carriage, and let the patient take twenty or thirty drops of it night and morning, in half a glass of brandy or other spirits. We Debraw, an ingenious chymist of this place, informs me, that he prepares a full of mercury much more mild will gentle in its operation than the sublimate, though equally especience in minutes.

<sup>§</sup> I lough we are flid very much in the dark with regard to the meth d of caring this difease among the natives of America, set it is generally firmed, that they do care it with speed, sajety, and success, and

Many other woods and roots might be mentioned which have been extolled for curing the venereal discase, as the China toot, the root of soap wort, berdock, &c. as also the wood of gnaiacum and sailastas; but as none of these have been found to posses virtues superior to those already mentioned, we shall for the sake of brevity, pass over them, and shall conclude our observations on this discase with a few general remarks concerning the proper management of the parient, and the nature of the infection.

GENERAL OBSERVATIONS.

The condition of the patient ought always to be confidered previous to his entering upon a course of mercury in any form. It would be equally rash and dangerous to administer mercury to a person laboring under any violent acute disease, as a putrid sever, pleurisy, peripneumony, or the like. It would likewise be dangerous in some chronic cases; as a slow heetic sever, or the last stage of a consumption. Sometimes, however, these diseases proceed from a consumption. In chronic diseases of a less dangerous nature, as the assume the gravel, and such like, mercury, if necessary, may be safely administered. If the patient's strength has been greatly exhausted, by sickness, labor, abstinence or any other cause the use of mercury must be postponed, till by time, rest, and a nourishing diet, it can be sufficiently restored.

Mercury ought not to be administered to women during the menstrual flux, or when the period is near at hand. Neither should it be given in the last stage of pregnancy. If, however, the woman be not near the time of her delivery, and circumstances render it necessary, mercury may be given, but in smaller doses, and at greater intervals than usual; with these precautions, both the mother and child may be cured at the same time,; if not, the disorder will at least be kept from growing worse, till the woman be brought

that without the least knowledge of mercury. Hence it becomes an object of considerable importance to discover their method of cure. This might furely be done by making trial of the various plants which are found in those parts, and particularly of such as the natives are known to make use of. All people in a rude state take their medicines chiefly from the vegetable kingdom, and are often possessed of valuable secrets with regard to the virtues of pounts, of which more enlightened nations are ignorant. Indeed we make no doubt, but some plants of our own growth, were proper pains taken to discover them, would be found as efficacious in curing the venereal disease as those of America. It must however be remembered, that what will cure the venereal disease in one country, will not always be found to nave equal success in another.

to bed, and sufficiently recovered, when a more effectual method may be purfued, which, if the suckles her child, will in all pro-

bability be sufficient for both.

Mercury eight always to be administered to infants with the greatest caution. Their tender condition unfits them for supporting a salivation, and makes it necessary to administer even the millisst preparations of mercury to them with a sparing hand. A similar conduct is recommended in the treatment of old persons, who have the mistortune to labor under a confirmed lues. No doubt the infirmities of age must render people less able to undergo the satigues of a salivation; but this, as was formerly observed, is never necessary; besides, we have generally found, that mercury had much less effect upon very old persons, than on these who were younger.

Hysteric and hypocondriac persons, and such as are subject to an habitual diarrhoea or dysentery, or to frequent and violent attacks of the epilepsy, or who are afflicted with the scropinsa, or the scurvy, ought to be cautious in the use of mercury. Where any one of these disorders prevail, it ought either, if possible, to be cured, or at least palliated, before the patient enters upon a course of mercury. When this cannot be done, the mercury must be administered

in finaller doses, and at longer intervals than usual.

The most proper seasons for entering upon a course of mercury, are the spring and autumn, when the air is of a moderate warmal. If the circumstances of the case, however, will not admit of delay we must not defer the cure on account of the season, but must administer the mercury, taking care at the same time to keep the patient's chamber warmer or cooler, according as the season of the year requires.

The next thing to be confidered is the preparation necessary to be observed before we proceed to administer a course of mercury. Some lay great stress upon this circumstance, observing, that by previously relaxing the vessels, and correcting any disorder which may happen to prevail in the blood, not only the mercury will be disposed to act more kindly, but many other inconveniences will be

prevented.

We have already recommended bleeding and gentle purges, previous to the administration of mercury, and shall only now add, that these are always to be repeated according to the age, strength, constitution, and other circumstances of the patient. Atterwards, if it can be conveniently done, the patient ought to bathe on e or twice a-day, for a tew days, in luke-warm water. His diet, in the mean time, must be light, most and cooling. Wine, and all heating liquors, also violent bodily exercise, and all great exertions of the mind are carefully to be avoided.

A proper regimen is likewise to be observed by such as are under a course of mercury. Institution to this not only endangers the patient's life, but often also disappoints him of a cure. A much smaller quantity of mercury will be sufficient for the cure of a perfon who lives low, keeps warm, and avoids all menture of excess, than of one who cannot endure to put the smallest retraint upon his appetites; indeed it but rarely happens, that such are thoroughly cured.

There is hardly any thing of more importance, either for preventing or removing veneral infection, than cleanlines. By an early attention to this, the infection might often be prevented from entering the body; and, where it has already taken place, its effects may be greatly mitigated. The moment any perform ha reason to suffect that he has received the insection, he ought to wash the puts with water and spirits, sweet oil, or mick and water; a small quantity of the last may likewise be injected up the methra, it it can be conveniently done. Whether this dise se at first took its rise from dirtiness is hard to say; but wherever that prevails, the insection is found in its greatest degree of virulence, which gives ground to believe, that a strict attention to cleanliness would go far towards extirpating it altogether.\*

\* I have not only often seen a recent infection carried off in a few days, by means of cleanliness, viz bathing, jouentations, inicetions, Esc. but have likewife found it of the greatest advantage in the more ailvanced stages of the disease. Of this I had lately a very remarkable instance, in 2 man whose penis was almost wholly confumed by concreat ulcers; the matter bad been allowed to continue on the fores, without any care having been taken to clean them, till, notwithstanding the use of mercury and other medicines, it had produced the effects abovementroned. I ordered warm mick and water to be injected three or pur times a day, into all the fixuous ulcers, is order to wash out the matter; after which they were fluffed with dry lint to objorb the fresh matter as it was generated. The patient at the same time took every day half a grain of the correlive sublimate of mercury, destalved in an owner of vrandy, and drank an English quart of the decistion of farfetarilia .-By this treatment, in about fix weeks, i.e was per felly cured; and, whit was very remartalte, a part of the penis was actually regenersted

Dr. Gilcheift has given en ac unt of a species of the lues venered which prevails in the west of Scotland, towall oh the actives give the name of Sibbins or Sivvins. The doctor ohly rows, that the spreading of this disease is chiefly own to a neglect of elevatines, and seems to think, that y due attention to that victue it might be excirpated. The

When the venereal disease has been neglected or improperly treated, it often becomes a disorder of the habit. In this case the cure must be attempted by restoratives, as a milk diet, the decoction of sarsaparilla, and such like, to which mercury may be occasionally added. It is a common practice in North Britain to sept such parients to drink goat-whey. This is a very proper plan, provided the infection has been totally eradicated before hand; but when this is not the case, and the patient trusts to the whey for finishing his cure, he will often be disappointed. I have frequently known the disease return with all its virulence after a course of goat-whey, even when that course had been thought quite sufficient for completing the cure.

One of the proft unfortunate circumstances attending patients in this difease, is the necessity they are often laid under of hurrying the cure. This induces them to take medicine too fast, and to leave it off too foon. A few grains more of medicine, or a few days longer of confinement, would often be sufficient to perfect the cure; whereas, by neglect of these, a small degree of virulence is still left in the humors, which gradually vitiates, and at length contaminates the whole mass. To avoid this, we would advise, that the patient should never leave off taking medicine immediately upon the disappearing of the symptoms, but continue it for some time after, gradually lessening the quantity, till there is sufficient

ground to believe that the difease is entirely eradicated.

It is not only difficult, but absolutely impossible, to ascertain the exact degree of virulence that may attend the disease; for which reason it will always be a much safer rule to continue the use of medicine too long, than to leave it off too soon. This seems to be the leading maxim of a modern practitioner of some note for the veneral disease, who always orders his patient to perform a quarantine of at least forcy days, during which time he takes forty bottles of, I suppose a strong decoction of suspending, or some other antiveneral simple. Whoever takes this method; and adds a sufficient quantity of corrolive sublimate, or some other active preparation of mercury to the decoction, will selaom fall to cure a constrained lues.

It is peculiarly unfacturate for the cure of this disease, that not one in ten or those who contract it, are either able or willing to submit to a proper plan of region. The patient is willing to take medicine; but he must solve his business, and, to prevent suspicious, must eat and drink like the rest of the family. This is the true source of nine tenths of all the mischief arising

treatment of this defease is similar to that of a confirmed lues or px. The vaws, a disease which is now very come with inemicia and the West India islands, may also be cured in the same manner.

from the venereal disease. I never knew the cure attended with any great difficulty or danger where the patient strictly followed the physician's advice; but a volume would not be sufficient to point out the dreadful consequences which proceed from an opposite conduct. Scirrhus testreles, pleerons fore throats, madreis, consumptions, carious bones, and rotten progeny, are a few of the

bleffings derived from this fource.

There is a species of false reasoning, with regard to this discose, which proves fatal to many. A person of a sound constitution contracts a flight degree of the disorder. He gets well without taking any great care, or using much medicine, and hence concludes that this will always be the cafe. The next time the difease occurs, though ten times more virulent, he pursues the same course and his constitution is ruined. Indeed the different degrees of virulence in the small-pox are not greater than this difeafe, though, as the learned Sydenham observes, in some cases the most skilful physician cannot cure, and in others the most ignorant old woman cannot kill the patient in that diferder. Though a good constitution is always in favor of the patient, yet too great stress may be laid upon it. It does not appear from observation, that the most robust constitution is able to overcome the virulence of the venereal contagion, after it has got into the abit. In this case a proper course of medicine is always indispenfably necessary.

Although it is impossible, on account of the different degrees of virulence, &c. to lay down fixed and certain rules for the cure of this disease, yet the following general plan will always be sound safe, and often successful, viz. to bleed and administer gentle purges and diurctics during the inflamatory state, and as soon as the symptoms or inflamation are abated, to administer mercury, in any form that may be most agreeable to the patient. The same medicine, affisted by the decoction of sarsaparilla, and a proper regimen, will not only secure the constitution against the surther progress of a confirmed pox, but will generally perform a

complete cure.

# C H A P. XLVIII.

OMEN, in all civilized nations, have the management of domettic affairs, and it is very proper they should, as Nature has made them less fit for the more active and laborious emolevements. This include necessity, however, is generally carried too

tar; and females, instead of being benefited by it, are greatly injured, from the want of exercise and tree air. To be satisfied of this, one need only compare the fresh and ruddy looks of a milk-maid, with the pale complexion of those semales whose whose time is spent within doors. Though Nature has made an evident distinction between the male and semale with regard to bodily strength and vigor, yet she certainly never meant, either that the one should be always without, or the other always within doors.

The confinement of females, besides harting their figure and complexion, relaxes their solids, weakens their minds, and disorders all the functions of the body. Hence proceed obstructions, indigestion, flatulence, abortions, and the whole train of nervous disorders. These not only unfit women for being mothers and nurses, but often render them whimsical and ridiculous. A sound mind depends so much upon a healthy body, that where the latter is wanting, the

former is recely to be found.

I have always observed, that women who were chiefly employed without doors, in the different branches of husbandry, gardenine, and the like, were almost as hardy as their husbands, and their children were likewise strong and healthy. But as the bad essets of confinement and inactivity upon both sexual have been already shown, we shall proceed to point out those circumstances in the structure and design of semales, which subject them to peculiar diseases, the chief of which are, their monthly evacuations, pregnancy, and child-bearing. These indeed cannot properly be called diseases, but from the stellicacy of the fex, and their being often improperly managed in such situations, they become the source of numerous calamities.

### OF THE MENSTRUAL DISCHARGE.

Females generally begin to menfituate about the age of fifteen, and leave it off about fifty, which renders these two periods the most critical of their lives. About the first appearance of this discharge, the constitution undergoes a very considerable change, generally indeed for the batter, though sometimes for the worse. The greatest care is now needsay, as the future health and happiness of the second depends, in a great measure, upon her conduct at this period.\*

<sup>\*</sup> It is the day of mothers, and those who are entrasted with one education of girth, it instructs them early in the conducts and manageand to of themselves at this critical period of their lives. False medely, indication, and ignorance of what is beneficial or kuriful at this time, are the sources of our y diseases and misson tunes in life, which a sew sensolve less now from an experienced mation might have provented. Nor is care less now fary in the subject entreturns of this distance. Taking

If a girl, about this time of life, be confined to the house, ker constantly siting, and neither allowed to romp about, nor employed in any active business, which gives exercise to the whole body, the becomes weak, relaxed, and puny; her blood not being duly prepared, she looks pale and wan; her health, spirits, and vigor decline, and the finks into a valetudinarian for life. Such is the fate of numbers of those unhappy semales, who, either from too much indulgence, or their own narrow circumstances, are, at this critical period, denied the benefit of exercise and free air.

A lazy, indolent disposition proves likewise very hurtful to girls at this period. One seldom meets with complaints from obstructions amongst the more active and industrious parts of the sex; whereas, the indolent and lazy are seldom free from them. These are in a manner eaten up by the chlorosis, or green sickness, and other diseases of this nature. We would therefore recommend it to all who wish to escape these calamities, to avoid indolence and inactivity, as their greatest enemies, and to be as much abroad in the open

air as possible.

An ther thing which proves very hurtful to girls at this period of life, is unwholesome sood. Fond of all manner of trash, they otten indulge in it, till their whole humors are quite vitiated. Hence entue indigestions, want of appeate, and a numerous train of evils. If the saids be not duly prepared, it is utterly impossible that the secretions should go properly on Accordingly we find that such girls as lead an indolent life, and eat great quantities of trash, are not only subject to obstructions of the menses, but likewise total and obstructions, as the scrophula, or king's evil, &c.

A dull disposition is also very hurtful to girls at this period. It is a rore thing to see a sprightly girl who does not enjoy good health, while the grave, moping, melancholy creature, proves the very proy of valors and hysterics. Youth is the season for mirth and cheerfulness. Let it therefore be indulged It is an absolute duty. To lay in a stock of health in time of youth, is as necessary a piece of predence, as to make provision against the decays of old age. While, therefore, wise Nature prompts the happy youth to join in strightly amusements, let not the severe distance of horty age to bid the useful impulie, nor damp, with serious gloom, the season described to mirth and innocent restricty.

Another thing very hurtful to temples about this period of life is firait elothes. They are fond of a fine shape, and recolliny imagine that this can be acquired by lacing themselves tight. Hence, by

improper food, violent affections of the mind, or catching cold at this period, is often sufficient to ruin the health, or to render the semale ever often incopuble of procreation,

fqueezing the stomach and bowels, they hurt the digestion, and

orcation many incurable maladies

This error is not indeed to common as it has been; but as fashions change, it may come about again; we therefore think it not improper to mention it. I know many females, who, to this day, feel the direful effects of that wretched custom which prevailed fome years ago, of squeezing every girl into as small a fize in the middle as possible. Human invention could not possibly have devised a practice more destructive to health.

After a female has arrived at that period of life when the menfes usually begin to flox, and they do not a pear, but, on the contrary, her health and spirits begin to decline, we would advise instead of shutting the poor girl up in the house, and desing her with steel, atas wida, and other nauseous drogs, to place her in a situation where she can enjoy the benefit of thee air and agreeable company. There let her eat wholesome food, take sufficient exercise, and amuse herself in the most agreeable manner; and we have little reason to fear but Nature, thus essifished, will do her proper work: Indeed she seldom sails, unless where the fault is on our side.

This discharge in the beginning is seldom so instantaneous as to surprise semales unawares. It is generally preceded by symptoms which toretel its approach; as a sense of heat, weight, and du't pain in the loine, distention and hardness of the breatls, head ache, loss of appetite lassitude, paleness of the countenance, and sometimes a slight degree of sever. When these symptoms appear about the age at which the mensural flux u'ually begins, every thing should be care ully avoided which may obstruct that necessary and salutary evacuation, and all means used to promote it, as skiing frequently over the steams of warm water, drinking warm diluting liquo s, &e.

After the menses have once began to flow, the greatest care should be taken to avoid every thing that may tend to obstruct them. Females ought to be exceeding cautious of what they eat or oring at the time they are out of order. Every thing that is cold, or apt to four on the stomach, ought to be avoided, as struit, bu ter-milk, and such like. Fish, and all kinds of food that is hard of digestion, are also to be avoided. As it is impossible to mention every thing that may disagree with individuals at this time, we would recommend it to every semale to be very attentive to what disagrees

with herfelf, and carefully to avoid it.

Cold is extremely hartful at this particular period. More of the fex date their diseases from colds, caught while they are out of or der, than from all other causes. This ought surely to put them upon their guard, and to make them very circumspect in their conduct at such times. A degree of cold that will not in the least here

them at another time, will at this period be fufficient entirely to

ruin their health and constitution.

The greatest a tention ought always to be paid to the mind, which should be kept as easy and cheerful as possible. Every part of the animal occonomy is instructed by the passions, but none more so than this. Anger, sear, guick, and other assections of the mensional slux, which prove absolutely incurable.

From whatever cause this sux is obstructed, except in the slate of pregnancy, proper means should be used to restore it. For this purpose we would recommend sufficient exercise, in a dry, open, and rather cool air; wholesome diet; and, if the body he weak and languid, generous liquors, also cheerful company, and all manner of amusements. If these sail, recourse must be had to

medicine

When obstructions proceed from a weak, relaxed state of the soids, such medicines as tend to promote digestion, to brace the solids, and assist the body in preparing good blood, ought to be used. The principal of these are iron and the Peruvian bark, with other bitter and astringent medicines. Filings of iron may be insused in wine or ale, two or three ounces to a quart, and after it has stood for two or three weeks, it may be sistrated and about half a wine glass of it taken twice a day; or prepared steel may be taken in the dose of half a dram, mixed with a little honey or treacle, three or four times a day. The bark and other bitters may be either taken in substance or insusion, as is most agreeable to the patient.

When obstructions proceed from a viscid state of the blood, or for women of a gross or full habit, evacuations, and such medicines as attenuate the humors, are necessary. The patient in this case ought to be bled, to bathe her seet frequently in warm water, to take now and then a cooling purge, and to live upon a spare thin diet. Her drink should be whey, water, or small herr, and she ought to take sufficient exercise. A tea spoonful of the tincture of black hellebore may also be taken twice a day, in a cup of

warm wa e".

When obstructions proceed from assessions of the mind, as grief, fear, anger, &c. every method faculd be taken to amuse and divert the patient. And that the mass the more readily sorget the cause of her affliction she ought, if possible, to be removed from the place where it happened. A change of place, by presenting the mind with a variety of new objects, has often a very happy influence in relieving it from the deepest diffress. A soothing, kind, and affable behavior to semales in this situation, is also of the last importance.

An obstruction of the menses is often the effect of other maladies. When this is the case, instead of giving medicines to force that discharge, which might be dangerous, we ought by all mesns to endeavor to restore the patient's health and strength. When that is effected, the other will return of course.

But the menstrual flux may be too great as well as too small. When this happens, the patient becomes weak, the color pale, the appetite and digestion are bad, to which cadamatous swellings of the feet, dropsies, and consumptions often ensue. This frequently happens to women about the age of forty-five or fifty, and is very difficult to cure. It may proceed from a sedentary life, a full diet, consisting chiefly of salted high-seasoned, or acrid food, the use of sprituous liquors, excessive satigue, relaxation, a dissolved state of the blood, violent passions of the mind, &c.

The treatment of this disease must be varied according to its cause. When it is occasioned by an error in the patient's regimen, an opposite course to that which induced the disorder, must be purfued, and such medicines taken as have a tendancy to restrain the flux, and counteract the morbid affiections of the system from whence it proceeds.

To reftrain the flux, the patient should be kept quiet and easy both in body and mind. If it be very violent she ought to be in bed with her head low, to live upon a cool and slender diet, as verd or chicken broths with bread, and to drink decoctions of nettle roots, or the greater comfrey. If these be not sufficient to stop the flux, stronger astringents may be used, as Japan earth, alum, elixir

of vitrol, the Peruvian bark, &c.\*.

The uterine flex may offend in quality as well as quantity.— What is usually called the fluer albis, or whites, is a very common disease, and proves extremely hurtful to delicate women. This discharge, however, is not always white, but sometimes pale, yellow, green, or of a blackish colour; sometimes it is sharp and corrosive, sometimes soul and social, &c. It is attended with a pale complexion, pain in the back, loss of appetite, swelling of

Perfore whose stomaches cannot bear the alum may take two tablefrontiles of the tinesture of roses three or four times a day, to each dife

of voich ten drops of laudanum may be added.

It these smuld fail bath a draw of the Peruvian bark in powder, with ten drops of the elixir of vitrol, may be taken in a glish of red wine, four times a day.

<sup>\*</sup> Two drams of alum and one of Japan earth may be pounded together, and divided into eight or nine defect, one of which may be taken three tires a-day.

the feet, and other figns of debility. It generally proceed from a relaxed state of the body, ariting from indolence, the excessive use

of tea, coffee or other weak and watery diet.

To remove this difease, the potent must take as much exercise as she can bear without setting. For food should be solid and nour-ishing, but of easy direction, and her drink rather generous, as red port or claret, mixed with Pyrmont, Bistol, or line water.—Tea and coffee are to be avoided. I have often known strong broths have an exceeding good effect, and sometimes a milk diet alone will perform cure. The patient ought not to lie too long a-bed. When medicine is necessary, we know none preferable to the Peruvian bark, which in this case ought always to be taken in substance. In warm weather the cold bath will be of considerable fervice.

That period of life at which the menfes cease to flow, is likewise very critical to the sex. The stoppage of any customary evacuation, however small, is sufficient to disorder the whole frame, and often to destroy life itself. Hence it comes to pass, that so many women either fall into chronic disorders, or die about this time.—Such of them, however, as survive it, without contracting any chronic disease, often become more healthy and hardy than they were before, and enjoy strength and vigor to a very great age.

If the menses cease all of a sudden, in women of a full habit, they ought to abate somewhat of their usual quantity of food, especially of the more nourishing kind, as stell, eggs, &c. They ought likewise to take sufficient exercise, and to keep the body open. This may be done by taking, once or twice a-week, a little rhir-

barb, or an infusion of hiera picra in wine or brandy.

It often happens that women of a groß habit at this period of life, have ulcerous fores break out about their ancles, or in other parts of the body. Such ulcers ought to be confidered as critical, and should either be suffered to continue open, or have artificial drains substituted in their stead. Women who will have such fores dried up, are often soon carried off by acute diseases, or fall into those of a chronic nature.

## OF PREGNANCY.

Though pregnancy is not a difease, yet that state is often attended with a variety of complaints which merit attention, and which sometimes require the affishance of medicine. Some women indeed are more healthy during their pregnancy that at any other time; but this is by no means the general case; most of them breed in forrow, and are frequently indisposed during the whole time of pregnency. Few stated diseases, however, happen during that period, and hardly any, except abortion, that can be called dangerous.

Pregnant women are often afflicted with the heart-burn. The method of treating this complaint has been already pointed out. I ney are likewife, in the more early periods of pregnancy, often harrafled with fickness and vomiting, especially in the morning. The method of relieving these complaints has also been shewn. Both the head-ache and the tooth-ache are very troublesome symptoms of pregnancy. The former may generally be removed by keeping the body gently open, by the use of prunes, sigs, roasted apples, and such like. When the pain is very violent, bleeding may be necessary. For the treatment of the latter, we must refer to that article. Several other complaints incident to pregnant women might be mentioned, as a cough and difficulty of breathing, suppression and incontinency of urine, &c. but as all of these have been taken notice of before, it is needless to repeat them.

Every pregnant woman is more or less in danger of abortion. This should be guarded against with the greatest care, as it not only weakens the constitution, but renders the woman liable to the same misfortune afterwards.\* Abortion may happen at any period of pregnancy, but it is most common in the second or third mouth. Sometimes, however, it happens in the fourth or fifth. It it happens within the first month, it is usually called a false conception; if after the seventh month, the child may often be kept alive by proper care.

The common causes of abortion are, the death of the child, weakness or relaxation of the mother, great evacuations, violent exercise, raising great weights, reaching too high, jumping, or steping from an eminence, voniting, coughing, convultion fits, blows on the belly, falls, severs, disagreeable facells, excess of blood, indolence, high living, or the contrary, violent pathons or affections

of the mind, as fear, griet, &c.

The figns of approaching abortion are, pair in the lairs or about the bottom of the belly, a dull heavy pain in the infide or the thighs, a flight degree of coldness or shivering, sickness, palpitation of the heart, the breasts occome flat and fift, the belty fam,

<sup>\*</sup> Every mother who procures an abortion does it at the hozard of her life; yet there are not a few who run this risk merely to prevent the trouble of bearing and bringing up children. It is furth a mist unnatural crime, and cannot even in the mist abandoned, be viewed without borror; but in the decent matrin, it is full more unpardone to entry before wretches who daily advertise their affiliance to women in this business, discover, in my opinion the mist severe of all laman parishments.

and there is a discharge of blood or watery humours from the womb.

To prevent abortion, we would advise women of a weak or rebaxed habit to use solid food, avoiding great quantities of tea, and other weak and watery liquors, to rife early and go foon to bed, to th in damp houses, to take frequent exercise in the open air, but to avoid fatigue, and never go abroad in damp fuggy weather, it

they can shun it.

Women of a full habit ought to use a spare diet, avoiding strong liquors, and every thing that may tend to heat the body, or increase the quantity of blood. Their diet should be of an opening na ure, confilting principally of vegetable substances. Every woman with child ought to be cheerful and easy in her mird. Her appetites, even though depraved, ought to be indulged as far as prudence will permit.

When any figns of abortion appear, the woman ought to be laid in bed on a mattrefs, with her head low. She should be kept quiet, and her mind foothed and comforted. She ought not to be kept too hot, nor to take any thing of a hearing nature. Her food should confift of broths, rice and milk, jeilies, gruels made of

oat-meal, and the like, all of which ought to be taken cold.

If the be able to bear it, the thould lofe at least halt a pound of blood from the arm. Her drink ought to be barley water that pened with juice of lemon; or she may take half a dram of powiered nitre, in a cup of water-gruel, every five or fix hours. If the wor man be feized with a violent loofeness, she ought to drink the decoction of calcined hartfin in prepared.—If howe affected with vomiting, let her take frequently two table-spoonfuls of the fair e mixture. In general, opiates are of service; but they should always be given with caution.

Sanguine robutt women, who are liable to miscarry at a certain time of pregnancy, ought always to be bled a few days before that period arrives. By this means and observing the regimen above

prescribed, they might often escape that mission time.

Though we recommend due care for preventing abortion, we would not be understood as restraining pregnant women from their usual exercises. This would generally operate the quite contrary way. Want of exercise not only release the body, but induces a plethora, or too great a fulness of the veilels, which are the two principal causes of abortion. There are, however, some women of so delicate a texture, that it is recessory for them to avoid ali... every kind of exercise during the whole period of program

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## OF CHILD-EIRTH.

Many difeales proceed from the want of due care in child b 1, and the more hardy part of the fex are most apt to despite the neor sary precautions in this state. This is peculiarly the case with young wives. They think, when the labor pains are ended, the danger is over, but in truth it may only then be faid to be begun. Nature, if left to herfelf, will feldom all to expel the fulus; but proper care and management are certainly necessary for the readvery of the mother. No doubt mischief may be done by too much as well as by too little care. Hence females who have the greatest number of attendants in child-hed, generally recover worst. But this is not peculiar to the state of child bed. Excessive care always defeats its own intention, and is generally more dangerous than none at all. \*

During actual labor, nothing of a heating nature ought to he given. The woman may now and then take a little panade, and her drink ought to be tooft and water, or thin groat gruel. Spirit, wines, cordial waters, and other things which are given with a view to frengthen the mother, and promote the birth, for the most part tend only to increase the sever, instance the womb, and retard the labor Belides, they endanger the woman afterwards, as they often occasion violent and mortal homorrhages, or d foole her to eruptive and other fevers,

When the labor proves tedious and difficult, to prevent inflomations, it will be proper to bleed. An emollient eighter ought like wife frequently to be administered; and the patient should st over the steams of warm water. The pass ge ought to be gently

<sup>\*</sup> Though the management of women in child-bed has been traffed as an employment firce the earliest accounts of time; yet it is slit, in most countr's on a very bad forting. Few women think of following to some plyment till they are reduced to the necessity of voing it for I read. It is not one in a bundred of them have any education, or proper knowled of their husiress. It is true, that Nature, if left to herself, will go er my expel the fatus; but it is equally true, that most women in and I d require to be man ged with skill and attention, and that they are of burt by the separations prejudices of ignorant and officious mias wes..... The mischief dure in this way is much prenter than is generally integinal; mot if which right be prevented by allowing no woman to great for it. wifery, bit fush as are properly qualified. Were due at any on 's this, it would not only be the means of farting many live , but were present the nec flir of employing nen in this is delicate and any moral e Ir not f med ine, action is, on many necessary, more f jet for the olier jer.

rubed with a little fost fonctum or fresh butter, and cloths wrung out of warm water applied over the belly—If Nature seems to sink, and the woman is grantly exhausted with satigue, a drought of generous wine, or someother cordial, may be given but not other wife. These discallens re sufficient in natural labors; and in all preternatural sates, a skultul surgeon, or man midwise, ought to be coiled us some as possible.

After delivery, the woman ought to be kept as quiet and eafy as a fulfible. Her food thould be light and thin, as gruel, panado, &c. and her drink weak and diluting. To this rule, however, there are many exceptions. I have known feveral women whose spirits could not be supported in child bed without folid food and generous liquers; to such, a glass of wine, and a bit of chicken, nucle be

anewad.

Sometimes an excessive hardorrhage or flooding happens after derivery. In this case the patient should be laid with her head how kept coul, and be in all respects treated as for an excessive flow of the menfex. If the flooding proves violent, linea cloths which have been wrong out of a ansture of equal parts of vinegar and water, or red wine, should be applied to the belly, the loins, and the thinghs to these must be changed as they grow dry, and may be

discontinued as foon as the flooding abates.†

It there be viocent pains after delivery, the patient ought to drink plentifully of warm during liquors, as great genel, or tea with a little line on in it; and to take time I broths, with carraway feeds, or a bit of crange peel in them; an ounce of the oil of fweet al not a may likewife be frequently taken in a cup of any of the above liquor; and if the patient be refilefs, a spoonful of the ly-up of paperes may now and then be mixed with a cup of her drink. I did not or feverifh, one of the following powders may be taken in a cup of her usual drink, every five or his hours.

\* We cannot help taking notice of that ridiculous custom which still prevails in some parts of the country, of collecting a number of women to the upon such occosions. These, instead of being useful, serve only to or wit the hoose, and obstruct the necessary attendants. Besides, they burt the patient with their noise; and often, by their untimely and impertinent advice, do much mischief.

† In a violent flooding after delivery, I have four very good effects from the following mixture: take penny-royal water, simple cinnamentative, and syrup of poppies, each two ounces; elixir of vitriol, a dram. Mix. and take two table spoonfuls every two hours, or oftener if necoffary.

\* Take of crabs claws prepared, half an ounce; purified nitro. two drams feffron, powdered, half a dram : rub them together in a mostur, and divide the while into eight or nine defes.

An influentian of the womb is a dangerous and not unforquent diferic after delivery. It is known by pains in the lower part of the belly, which are greatly increased upon a uching; by the tension or tightness of the parts, great weakness, change of countenance, a contlant fever, with a weak and hard pulse, a slight delivium, or raving, sometimes incessent vomiting; a biccough, a discharge of redith, slinking, tharp water tom the womb, an inclination to go frequently to stool, a heat, and sometimes total suppression of tring.

This must be treated like other influentery diforders, by bleeding and plentiful dilution. The drink may be thin grue', or barley-water, in a cup of which helf a dram of nitre may be diffolved, and taken three or four times a-dry. Clysters of warm milk and water must be frequently administered, and the belly should be fomented by cloths wrung out of warm water, or by applying bladders filled

with warm milk and water to it.

A suppression of the lachia, or usual discharges after delivery, and the milk fever, must be treated nearly in the same manner as an influmation of the womb. In all these cases, the safest course is plentiful dilution, gentle evacuations, and somentations of the parts affected. In the milk sever, the breasts may be embrocated with a little warm linseed oil, or the leaves of red cabbage may be applied to them. The child should be often put to the breast, or it should be drawn by some other person.

Nothing would tend more to occuent the milk fever, then puting the child early to the breaft. The custom of not allowing children to fuck for the first two or three days, is contrary to nature and common sense, and is very hurtful both to the notiler and child.

Every mother who has milk in her breafts, ought either to fuckle her own child, or to have her breafts frequently drawn, at less t for the first month. This would prevent many of the diseases which

prove fatal to women in child-bed.

When an influent in happens in the break, attended with reduces, hardness, and other symptoms of suppuration, the safest application is a positive of bread and milk, softened with oil or tresh butter. This may be renewed twice a day, till the tumor be either discussed or brought to suppuration. The offer of repellents, in this case, is very dangerous; they often occasion fevers, and sometimes cancers: whereas a suppuration is soldown attended with any danger, and has orien the most falutary cheets.

When the patient is low spirited, or troubled with hysterical complaints, the ought to take frequently twolve or lifteen drops of the tinucula of afatested via a cup of the ry ryu tea.

When the nipples are freted, or chapt, they ought to be anointed with a mixture of oil and bees-wax, or a little powdered gum-arabic may be fprinkled on them. I have feen Hungary-water applied to the nipples have a very good effect. Should the complaint prove obtainate, a cooling purge may be given, which generally removes in

The militry fever is a difease incident to vomen in child-bed; but as it has been treated of already, we shall take no farther notice of it. The celebrated Hossman observes, that this sever of child-bed women might generally be prevented, if they, during their pregnancy were regular in their diet, used moderate exercise, took now and then a gentle laxative of manna, rhubarb, or cre most terrar: not forgeting to bleed in the first months, and avoid all sharp air. When the labor is coming on, it is not to be hellened with forcing medicines, which instante the blood and humous, or put them into unnatural commotions. Care should be taken, after the birth, that the natural excretions proceed regularly; and if the pulse he quick, a little nitrous powder, or some other cooling medicines, should be administered.

The most fatal disorder consequent upon delivery is the fuerferal, or child-bed sever. It generally makes its attack upon the second or third day after delivery. Sometimes, indeed, it comes on sponer, and at other times, though rarely, it does not appear before

the fifth or fix:h day.

It begins, like most other fevers, with a cold or shivering fit, which is succeeded by restleshess, pain of the head, great sickness at the stomach, and bilious voniting. The pulfe is generally quick, the tongue dry, and there is a remarkable depression of spirits, and Joss of strength. A great pain is usually felt in the back, hips, and region of the worth; a fudden change in the quantity or quality of the lockia also takes place, and the patient is frequently troubled with a teneforus, or constant inclination to go to stool. The urine, which is very high colored, is discharged in small quantity, and generally with pain. The belly femetimes facills to a confiderable buik, and becomes sufreprible of pain from the slightest touch. When the fever has continued for a few days, the lymptoms of inflamation utually fubfide, and the dife fe acquires a more juttid form. At this period, if not fooner, a bilious or putrid loofeness, of an obflinate and daugerous nature, comes on, and accompanies the difoafe through all its future progress.

There is not any offeare that requires to be treated with more still and attention than this; configuratly the kest assistance ought always to be obtained as soon as pussible. In women of pletheric constitutions, bleeding will generally be proper at the beginning; it ought however to be used with contion, and not to be repeat-

ed unless where the signs of inflamation run high; in which case it will also be necessary to apply a bliftering plaster to the region of

the womb.

During the rigor, or cold fit, proper means should be used to abate its violence, and shorten its duration. For this purpose, the patient may drink freely of warm diluting liquors, and, if low, may take now and then a capsul of wine whey; warm applications to the extre neties, as heated brinks, bottles or bladders filled with warm water, and such like, may also be used with adventage.

Enollient clysters of milk and water, or of chicken water, out ht to be frequently administered through the course of the disease. These prive beneficial by promoting a discharge from the intestines, and also by acting as a kindly fomentation to the womb and parts adjacent. Great care however is requisite in giving them on account of the tenderness of the parts in the priors at this

time.

To evacuate the offending bile from the florach, a vomit is generally given. But as this is apt to increase the intubility of the florach already too great, it will be faser to omit it, and to give in its flead a gentle laxative, which will both tend to cool the body, and

to procure a free discharge of the hile\*.

The medicine which I have always found to succeed best in this distale, is the saline draught. This, if frequently repeated, will often put a stop to the vortiting, and at the same time leven the violence of the sever. If it runs off by stool, or if the patient to restless, a few drops of laudanum, or some syrup of poppies, may

occasionally be added.

If the flools should prove so frequent as to weaken and exhault the patient, a starch clyster, with thirty or forty drops of laudanuar in it, may be administered as occasion shall require; and the drink may be rice water, in every English pint of which half an conce of gum arabic has been dissolved. Should these fail, recourse must be had to Columbo root, or some other astringent medicines

Though in general the food ought to be light, and the triak diluting, yet when the discase has been long protracted, and the patient is greatly spent by evacuations, it will be necessary to support her

with nourifhing diet and generous cordiais.

It was observed, that this fever, after continuing for super time, of en acquires a putrid form. In this case the Peruvian back much

<sup>\*</sup> Midwives ought to be very cautious in administering comins or furges to wear in child be l. I have known a woman tobo was recoverno extremely well, thrown into the most eminent danger, by a floor of far e which was given her by an office, a midwife.

be given, either by itself, or joined with cordials, as circumstances may require. As the bark in substance will be apt to purge, it may be given in decoction or insustant, mixed with the traduce of roles or other gentle astringents; or, a scruple of the extract of bark with half an ounce of spiritous cinnamon water, two ounces of common water, and ten drops of laudanum, may be made into a draught, and given every second, third, or south hour, as shall be found necessary.

When the stomach will not bear any kind of nourishment, the patient may be supported for some time by clysters of beef tea, or

chicken water.

To avoid this fever, every woman in child bed ought to be kept perfectly eafy, her food flould be light and fimple, and her bed chamber cool, and properly ventilated. There is not any thing more hurtful to a woman in this fituation than being kept too warm. She cught not to have her body bound too tight, nor to rife too foon from bed, after delivery; catching cold is also to be avoided; and a proper attention should be paid to cleanliness.

To prevent the milk fever, the breads ought to be frequently drawn; and if they are filled previous to the onfet of a fever, they should upon its first appearance, be drawn, to prevent the milk from becoming acrid, and its being absorbed in that state. Costivents is likewise to be avoided. This will be best effected by the

uffer mild clyders and a laxative diet.

We shall conclude our observations on child bed women by recommending it to them, above all things, to be ware of cold. Poor we men, whose circumstances oblige them to guit their bed too soon, often antract diseases from cold, of which they never recover. It is give the poor are not better taken care of in this situation.

B.t the better fort of wemen run the greater hazard from too much hear. They are generally kept in a fort of baguio for the full eight or ten days, and they dreffed out to fee company. The dan-

gref this conduct must be obvious to every one.

The interfittious custom of obliging women to keep the house tell there is no church, is likewise a very common cause of eaching cold. All churches are damp, and most of them cold; consequent-libber are the very worst places to which a would can go to in keep the very worst places to which a would can go to in keep tell.

### OF BARRENNESS.

Barrengels may be very properly reckon d among the distribe of femoles, as the manifed worden who have not children enjoy a good state of nearly. It may proceed from various causes, as high liv-

ing, grief, relaxation, &c. but it is chiefly owing to an oblimation

or irregularity of the menstrual flux.

It is very certain that high living vitiates the humors, and prevents fecundity. We feldom find a barren woman among the labouring poor, while nothing is more common among the rich and affluent. The inhabitants of every country are prolific in proportion to their poverty; and it would be an enfy matter to adduce many instances of women, who, by being reduced to live entirely upon a milk and vegetable diet, have conceived and brought forth children, though they never had any before. Would the rich use the same fort of food and exercise as the better fort of peasants, they would seldom have cause to envy their poor vassals and dependents the blossing of a numerous and healthy offspring, while they pine in forrow for the want of even a single heir to their extensive domains.

Affluence begets indolence, which not only vitiates the humors, but induces a general relaxation of the folids, a state highly unfavorable to procreation. To remove thin, we would recommend the following course: First, sufficient exercise in the open air; secondly, a diet confishing chiefly of milk and vegetables; thirds, the use of astringent medicines, as steel, alum, dragon's blood, clix r of viriol, the Spa or Tunbridge waters, Pereviou bark, &c. and

laftly, above all the cold bath.

Barrenness is often the consequence of grief, sudden fear, anxiety, or any of the passions which tend to obstand the neutral flux. When barrenness is suspected to proceed from affections of the mind, the person ought to be kept easy and cheerful as p finde; all disagreeable objects are to be avoided, and every method teken to amuse and entertain the sancy.

### C H A P. XLIX.

# DISEASES OF CHILDREN.

MISERABLE indeed is the lot of man in the state of inforce He comes into the world more in liples than any other of a mal, and stands much longer in need of the protestion and care if

\* Dr. Coorne avers, that wint of children is afterer the four of the male than f the female, and strongly recommends a milk and regard to diet to the former as well as the latter; adding, that his fries a Dr. Taylor, whom he calls the Milk-dostor of Crown and brought person opulant families in his neighborhood, who had antimed frie year

his parents; but, alas! this care is not always bestowed upon him; and when it is, he often suffers as much from improper management as he would have done from neglect. Hence the officials care of parents, nurses, and midwives, becomes one of the most

ir itful frurces of the diforders of infants.\*

It must be obvious to every attentive person, that the first discusses of infants arise chi say from their bowels. Nor is this in the least to be wondered at, as they are in a manner possened with indigestible drugs and improper diet as soon as they come into the world. Every thing that the stomach cannot digest, may be considered as a posson; and unless it can be thrown up, or voided by stool, it must occasion sickness, gripes, spalmodic affections of the bowels, or what the good women call inward fits, and at last convulsions and death.

As these symptoms evidently arise from somewhat that irritates the intestines, doubtless the proper method of cure must be to expel it as soon as possible. The most safe and essectual method of doing this is by gentle vomits. Five or six grains of the powder of ipecacuanha may be mixed in two table-spoonfuls of water, and sweetened with a little sugar. A tea-spoonful of this may be given to the infant every quarter of an hour, till it operates, or what will more certainly answer the purpose, a grain of emetic tartar may be dissolved in three cunces of water, sweetened with a little syrup, and given as above. Those who are willing to use the emetic tartar, may give six or seven drops of the antimonial wine, in a tea-spo usual of water or thin gruel. Small doses of the ipecacuanha wine will be found more gentle than any of the above, and cusht to be prefered.

These medicines will not only cleanse the stomach, but will generally likewise open the body. Should this however not hap-

ofter marriage wishout progeny to have feveral fine of ildren, by keeping both page 18, for a confiderable time to a milk and vegetable diet.

\* Of the office s and it judged care of midwives, we shall adduce only one infance, viz. the common practice of terturing infants by squeezing their breaks to drawn off the milk, as they call it. They ha small quantity of mothers is generally found in the breaks of infants, yet, is they are containly not intended to give such, this ought never to be drawn of I have seen this cruel operation bring on hardness, in from them, and supported not the breaks; but never know any ill embedies from its ling omitted. When the breaks are hard, the convert; in that we would recommend is a soft pountie, or a hale of the divers on that we would recommend is a soft pountie, or a hale of the divers on that we would recommend it of the leather, about the fize of a kelf covery, and applied over each nipple. These may be july red to a lift or bardness disappears.

pen, and if the child be cossive, some gentle purge will be necessary; for this purpose, some manna and pulp of cassia may be dissolved in boiling water, and given in small quantities till it operates; or, what will answer rather better, a few grains of magnesia alba, may be mixed in any kind of food that is given to the child, and continued till it has the desired effect. If these medicines be properly administered, and the child's belly and limbs frequently rubed with a warm hand before the fire, they will seldom fail to relieve those affections of the stomach and bowels from which infants suffer so much.

These general directions include most of what can be done for relieving the internal disorders of infants. They will likewise go a considerable way in alleviating those which appear externally, as the rash, gum, or fellon, &c. These, as was formerly observed, are principally owing to too hot a regimen, and consequently will be most effectually relieved by gentle evacuations. Indeed, evacuations of one kind or other, constitute a principal part of the medicine of infants, and will seldem, if administered with prudence, in any of their diseases, fail to give relief.

#### OF THE MECONIUM.

The stomach and bowels of a new-born infant are filled with a blackish colored matter of the consistence of syrup, commonly called the meconium. This is generally passed soon after the birth, by the mere effort of Nature; in which case it is not necessary to give the infant any kind of medicine. But if it should be retained, or not sufficiently carried off, a little manna, or magnesia aides, may be given, as mentioned above; or, if these should not be at hand, a common spoonful of whey, sweetened with a little honey, or raw sugar, wall answer the purpose.

The most proper medicine for expelling the meconium, is the mother's milk, which is always at first of a purging quality. Were children allowed to suck as soon as they shew an inclination for the breast, they would seldom have occasion for medicines to discharge the meconium; but even where this is not allowed, they ought never to have daubs of syrup, oils, and other indigestible stuff, cramed

down their throats.

### THE APHTHÆ, OR THRUSH.

The aphthæ are little whitish ulcers affecting the whole inside of the mouth, tongue, throat, and stomach of infants. Sometimes they reach through the whole intestinal canal; in which case they are very dangerous, and often put an end to the infant's life.

If the aphthe are of a pale color, pellucid, few in number, foft, superficial, and fall easily off, they are not dangerous; but if opaque,

yellow, brown, black, thick, or runing together, they ought to be dreaded.

It is generally thought that the aphthæ owe their origin to acid humors; we have reason to believe they are more frequently owing to too hot a regimen both of the mother and child. It is a rare thing to find a child who is not dosed with wine, punch, cinnamon waters, or some other hot and inflaming liquors, almost as soon as it is born. It is well known that these will occasion inflamatery discorders, even in adults; is it any wonder then that they should heat and inflame the tender bodies of infants, and set as it were the whole constitution on a blaze?

The most proper incidences for the aphthæ are vomits, such as have been already recommended, and gentle lexatives. Five grains of rhubard, and half a dram of magnesia alba, may be rubed together, and divided into six doses, one of which may be given to the infant every four or sive hours till they operate. These powders in ay either be given in the child's food, or a little of the syrup of pale roses, and may be repeated as often as is found necessary to keep the body open. It is common in this case to administer calemel; but as that medicine sometimes occasions gripes, it ought always to be

gi on to infants with caution.

Many things have been recommended for gargling the mouth and throat in this diffease; but it is not easy to apply these in very young children; we would therefore recommend it to the nurse to rub the child's mouth frequently with a little borax and honey, or with the following mixture: Take fine honey an ounce, borax a dram, burnt alum half a dram, rose-water two drams; mix them together. A very proper application in this case, is a solution of ten or twelve grains of white vitriol in eight ounces of barley water. These may be applied with the singer, or by means of a bit of soft rag tied to tue and of a probe.

### OF ACIDITIES.

The feed of children being for the most part of an accelernt nature, it readily turns four upon the stomach, especially if the body be any way disordered. Hence most diseases of children are accompanied with evident signs of acidity, as green stools, gripes, &c.

These appearance have induced many to believe, that all the discrete of children, were owing to an acid abounding in the stomach and bowels; but whoever considers the matter attentively, will find that these symptoms of acidity are oftener the effect than the cause of their discass.

Nature evidently intended, that the food of children should be acceptent; and unless the body be disordered, or the digestion lawr, from some other cause, we will venture to say, that the acceptant

quality of their food is fellom injurious to them. Acidity, however, is often a fymptom of diforders in children, and, as it is sometimes a troublesome one, we shall point out the mothod of relieving it.

When green stools, gripes purges, sour smelle, &c. shew that the bowels abound with an acid, the child should have a little small broth, with light white bread in it; and should have sufficient exercise in order to promote digestion. It has been customary in this case to give the pearl-julep, chalk, crabs eyes, and other testaceous powders. These, indeed, by their absorbent quality, may correct the acidity; but they are attended with this inconvenience, that they are apt to lodge in the bowels, and occasion costiveness, which may prove very hurtful to the infant. For this reason they should never be given unless mixed with purgative medicines, as rhubarb, manna, or such like.

The best medicine which we know, in all cases of acidity, is that fine insipid powder called magnesia alba. It purges, and at the same time corrects the acidity; by which means it not only removes the disease, but carries off the cause. It may be given in any kind of

food, or in a mixture, as recommended in the appendix.\*

When an infant is troubled with gripes, it ought not at first to be dised with brandy, spiceries, and other hot things, but should have its body opened with an emplicant clyster, or the medicine mentioned above; and at the same time a little brandy may be rubed on its belly with a warm han! before the fire. I have seldom seen this fail to ease the gripes of infants. If it should happen however not to succeed, a little brandy, or other spirits, may be mixed with thrice the quantity of warm water, and a tea-spoonful of it given frequently till the infant be easier. Sometimes a little peppermint water will answer this purpose very well.

# GALLING AND EXCORIATION.

These are very troublesome to children. They happen chief's about the groin and wrinkles of the neck, under the areas, behind the ears, and in other parts that are moistened by the sweat or urine.

As these complaints are, in a great measure, owing to want of cleanliness, the most effectual means of preventing them are, to wash the parts frequently with cold water, to change the linen often, and, in a word, to keep the child in all respects thoroughly clean. When this is not sufficient, the excertated parts may be sprinkled with absorbent or drying powders, as bornt hartshorn, tutty, chalk, crabs claws prepared, and the like. When the parts

<sup>\*</sup> See Appendix, Laxative absorbent Mixture.

affected are very fore, and tend to a real ulceration, it will be proper to add a little fugar of lead to the powders, or to anoint the place with the camphorated ointment. If the parts be washed with spring water, in which a little white vitriol has been disfolved, it will dry and heal them very powerfully. One of the best applications for this purpose is to dissolve some fuller's earth in a sufficient quantity of hot water; and after it has stood till it is cold, to rub it gently upon the galled parts once or twice a day.

#### STOPAGE OF THE NOSE.

The nostrils of infants are often pluged up with a gross mucus, which prevents their breathing freely, and likewise renders it diffi-

cult for them to fuck or fwallow.

Some in this case order, after a suitable purge, two or three grains of white vitriol dissolved in half an ounce of marjoram water, and filtered, to be applied now and them to the nostrils with a linen rag. Wedelius says, if two grains of white vitriol, and the same quantity of elaterium be dissolved in half an ounce of marjoram water, and applied to the nose, as above directed, that it brings away the mucus without sneezing.

In obstinate cases these medicines may be tried, but I have never found any thing necessary, besides rubing the nose at bed time with a little sweet-oil or fresh butter. This resolves the filth and renders

the breathing more free.\*

# OF VOMITING.

From the delicate state of children, and the great sensibility of their organs, a vomiting or looseness may be induced by any thing that irritates the nerves of the stomach or intestines. Hence these disorders are much more common in childhood, than in the more advanced periods of life. They are seldom, however, dangerous, and ought never to be considered as diseases, unless when they are violent, or continue so long as to exhaust the strength of the patient.

Vomiting may be excited by an over quantity of food, by food that is of such a nature as to irritate the nerves of the stomach too much; or by the sensibility of the nerves being so much increased as to render them unable to bear the stimulus of even the mildest

element.

When vomiting is occasioned by too much food, it ought to be promoted, as the cure will depend upon cleanling the stomach.—

<sup>\*</sup> Some nurses remove this complaint by sucking the child's nose.— This is by no means a cleanly operation; but when nurses have the resolution to do it, I am fur from discouraging the prastice.

This may be done either by a few grains of ipecacuanha, or a weak folution of emetic tartar, as mentioned before. When it is owing to food of an acrid or irritating quality, the diet ought to be changed, and aliment of a milder nature substituted in its stead.

When vomiting proceeds from an increased degree of sensibility, or too great an irritability of the nerves of the stomach, such medicines as have a tendency to brace and strengthen that organ, and to abate its sensibility, must be used. The first of these intentions may be answered by a so ght insusion of the Peruvian bark, with the addition of a little rhubarb, and orange peel; and the second by the saline draught, to which a few drops of liquid laudanum may occasionally be added.

In obstinate vomitings, the operation of internal medicine may be assisted with aromatic fomentations made with wine, applied warm to the pit of the stomach; or the use of the stomach plaster,

with the addition of a little Theriaca.

#### · OF A LOOSENESS.

A looleness may generally be reckoned salutary when the stools are sour, slimy, green or curdled. It is not the discharge, but the production of such stools, which ought to be remedied. Even where the purging is thin and watery, it ought not to be checked too suddenly, as it often proves critical, especially, when the child has caught cold, or an eruption of the skin has disappeared. Sometimes an evacuation of this kind succeeds a humid state of the atmosphere, in which case it may also prove of advantage, by carrying off a quantity of watery humors, which would otherwise tend to relax the habit.

As the principal intention of the cure of a loofeness is to evacuate the offending matter, it is customary to give the patient a gentle vomit of ipecacuanha, and afterwards to exhibit small and frequent doses of rhubarb, interpoying absorbent medicines, to mitigate the acrimony of the humors. The best purge, however, in this case, is magnesia alba. It is at the same time absorbent and laxative, and

operates without exciting gripes.

The antimonial wine, which acts both as an emetic and purge, is also an excellent medicine in this case. By being diluted with water, it may be proportioned to the weakest constitution; and, not being disagreeable to the palate, it may be repeated as often as occasion requires. Even one dose will frequently mitigate the disease, and pave the way for the use of absorbents. If, however, the patient's strength will permit, the medicine ought to be repeated every six or eight hours, till the stools begin to assume a more natural appearance; afterward a longer space may be allowed to intervene between the doses. When it is necessary to repeat the

medicine frequently, the doles ought always to be a little increased,

as its efficacy is generally diminished by use.

Some, upon the first appearance of a looseness, siv immediately to the use of absorbent medicines and astringents. If these be administered before the offending humors are discharged, though the disease may appear to be mirigated for a little time, it soon afterwards breaks forth with greater violence, and often proves fatal—After properagonations, however, these medicines may be adminishered with considerable advantage.

Should any gripings or reitlesiness prevail after the stomach and bowels have been cleansed, a tea spoonful of the syrup of poppies may be given in a little simple cinnomon water, three or four times

a-day, till these sympotime have ceased.

#### OF ERUPTIONS.

Children, while on the breatt, are foldom free from eruptions of one kind or an other. These, however, are not often dangerous, and ought never to be dried up but with the greatest caution. They tend to free the bodies of infan's from hurtful humors, which, if

retained, might produce fatal disorders.

The eruptions of children are chi fly owing to improper food and neglect of cleanliness. If a child be stuffed at all hours with food that its shomach is not able to digest, such food, not being properly assimilated, instead of nouristring the body, fills it with gross humors. These must either break out in form of eruptions upon the skin, or remain in the body, and occasion severs, and other internal disorders. That neglect of cleanliness is a very general cause of eruptive disorders, must be obvious to every one. The children of the poor, and of all who despise cleanliness, are almost constantly found to swarm with vermin, and are generally covered with the scap, itch, and other eruptions.

When eraptions are the effect of improper food, or want of cleanliness, a proper attention to these alone will generally be sufficient to remove them. If this should not be the case, some drying the iciaes will be necessary. When they are applied, the body ought at the same time to be kept open, and cold is carefully to be a cided. We know no medicine that is more safe for drying up cutaneous eruptions than sulphur, provided it be prudently used. A little of the flour of sulphur may be mixed with tresh butter, oil, or hog's land, and the parts affected frequently touched with it.

The most obstinue of all the eruptions incident to children are, the times capitis, or stabed head, and childrens. The scabed head is often extremely difficult to one, and sometimes, indeed, the cure process worse clean the discase. I have frequently known

children seized with internal disorders, of which they died soon after their feabled heads had been healed by the application of drying medicines.\* The cure ought always first to be attempted by keeping the head very clean, cutting off the Luir, combing and brushing away the scabs, &c. If this is not sufficient, let the head be shived once a week, washed daily with soap suds, and gently anoinfed with a liniment made of train oil eight onness, red precipitate in fine powder, one dram. And if there, be proud flesh, it should be touched with a bit of blue vitriol, or sprinkled with a little burnt alum. While thefe things are doing, the patient must be confined to a regular light diet, the body should be kept gently open, and cold, as far as possible ought to be avoided. To prevent any bad consequences from stopping this dif. charge, it will be proper, especially in children of a gross habit, to make an iffue in the neck or arm, which may be kept open till the patient becomes more strong, and the constitution be somewhat mended.

Chibbains commonly attack children in sold weather. They are generally occasioned by the test or hands being kept long wat or sold, and afterwards suddenly heated. When children are sold, instead of taking exercise to warm themselves gradually, they run to the fire. This occasions a sudden rarefestion of the humors, and an instastion of the vessels, and being often repeated, the vessels are at last over distended, and sorced to give away.

To prevent it, violent cold and sudden heat must be avoided. When the parts begin to look red, and swell, the spatient ought to be purged, and to have the affected parts frequently rubed with mustard and brandy, or something of a warming nature.

<sup>\*</sup> I fome time ago saw a very striking instance of the danger of substituting drying medicines in the place of clearliness and wholesome food, in the Foundling Hospital at Ackworth where the children were grievingly afflicted with scabed heads, and other cutaneous disorders. Upon inquiry, it was found that very little attention was paid either to the propriety or soundness of their provisions, and that cleanliness was totally neglected; accordingly it was advised that they should have more wholesome food, and be kept thoroughly clean. This advice, however, was not followed. It was too travelesome to the servant, superintendants, Sc. The husiness was to be did by medicine; which was accordingly attempted, but had nearly proved fatal to the whole house. Fevers, and other internal disorders immediately appeared, and at length a putrid dylentery, which proved so insectious, that it carried off a great many of the children, and spread over a considerable part of the neighboring country.

They ought likewise to be covered with stannel, and kept warm and dry. Some apply warm ashes between cloths to the swelled parts, which frequently help to reduce them. When there is a fore, it must be dressed with Turner's cerate the continent of tutty, the plaster, of ceruse or some other drying continent.—These fores are indeed troublesome, but seldom dangerous. Thoy generally heal as soon as the warm weather sets in.

#### OF THE CROUP.

Children are often seized very suddenly with this disease, which, if not quickly relieved, proves mortal. It is known by various names in different parts of Britain. On the east coast of Scotland it is called the croup. On the west they call it the chock, or stuffing. In some parts of England, where I have observed it, the good women call it the rising of the lights. It seems to be a species of assume, attended with very acute and violent catarrhal spontoms.

This disease generally prevails in cold and wet seasons. It is most common upon the sea coast, and in low marshy countries. Children of a gross and lax habit are most liable to it. I have sometimes known it hereditary. It generally attacks children in the night, after having been much exposed to damp, cold, easterly winds through the day. Damp houses, wet seet, thin shoes, wet clothes, or any thing that obstructs the perspiration, may occasion

the croup

It is attended with a frequent pulse, quick and laborious breathing, which is performed with a peculiar kind of creaking noise, that may be heard at a considerable distance. The voice is sharp and shrill, and she sace is generally much slushed, the sometimes

it is of a livid color.

When a child is feized with the above fymptoms, his feet should immediately be put into warm water. He ought likewife to be bled,\* and to have a laxative clyster administered as soon as possible. He should be made to breathe over the steams of warm water and vinegar; or an emolient decoction, and emolient cataplains or somentations may be applied round his neck. If the symptoms do not abate, a blistering plaster my be applied round the neck, or between the shoulders, and the child may take frequently a table spoonful of the sollowing julep: Take penny reyal water three ounces, syrup of althea and of poppies, each an ounce, mix them together.

<sup>\*</sup> In this difease, bleeding is not always proper; but in very full habits it must certainly be of use.

Associated is found to have a good effect in this case. It may be both given in form of clyster, and taken by the mouth. Two drams of associated may be diffolved in one ounce of Mindererus's spirit, and three ounces of penny-royal water. A table-spoonful of this mixture may be given every hour, or oftener, if the patient's stomach be able to bear it. If the child cannot be brought to take this medicine, two drams of the associated may be diffolved in a common clyster, and administered every fix or eight hours, till the violence of the diffesse abates.\*

To prevent a return of the diforder, all those things which occafion it must be carefully avoided, as wet feet, cold, damp, easterly
winds, &c. Children who have had frequent returns of this disease, or whose constitutions seems to dispose them to it, ought to
have their diet properly regulated; all food that is viscid, or hard of
digestion, and all crude, raw, trashy fruits, are to be avoided.
They ought thewise to have a drain constantly kept open in some
part of their body, by means of a seton or issue. I have sometimes
known a Burgundy-pitch plaster, worn continually between the
shoulders for several years, have a very happy effect in preventing
the return of this dreadful disorder.

#### OF TEETHING.

Dr. Arbuthnot observes, that above a tenth part of infants die in teething, by symptoms proceeding from the irritation of the tender nervous parts of the jaws, occasioning inflamations, severs, convulsions, gangrenes, &c. These symptoms are in a great measure owing to the delicacy and exquisite sensibility of the nervous system at this time of life, which is too often increased by an

<sup>\*</sup> I was lately favored with a letter from Dr. William Turnbull, in London, a physician of great experience, and who, from his former situation on the northeast coast of England, had many opportunities of observing the symptoms and progress of this dangerous disease. I am forry the letter came too late to be inferted at length; but as the Doctor's fentiments differ very little from my own, this nesfortune is the less to be regreted. The Doctor indeed observes, that he never found bliftering of any service; but recommends cataplasms of garlie, campber, and Venice treacle, to be applied both to the throat and foles of the feet. He likewise recommends beluses of campbor, castor, valerian root, salt of bartshorn, and mrsk, adapted to the age, Brength, &c. of the patient, after which he advises two spoonfuls of the following decortion: "Take of garlie and distilled vinegar, each an ounce; iyfop water, eight ounces; beat up the ingredients together, gradually mixing the water, and adding three ounces of honey. Let the whole be simmered over a gentle fire, and afterwards firained for ule.

effeminate education. Hence it comes to pass, that children who are delicately brought up, always suffer most in teething, and often

fall by convulfive diforders.

About the fixth or feventh month the teeth generally begin to make their appearance; first the incifores, or fore teeth; next, the canini, or dog-teeth; and, lastly, the molares, or grinders. About the seventh year, there comes a new set; and about the twentieth, the two inner grinders, called dentis sapientiæ, the teeth of visidom.

Children, about the time of cuting their teeth, flaver much, and have generally a loofeness. When the teething is difficult, especially when the dog-teeth begin to make their way through the guius, the child has startings in his sleep, tumors of the gums, watchings, gripes, green stools, the thrush, sever, difficult breathing, and

convultions.

Difficult teething requires nearly the fame treatment as an inflamatory difease. If the body be bound, it must be opened either by emollient elysters or gentle purgatives; as manna, magnesia all a, rhubarb, senna, or the like. The food should be light, and in small quantity; the drink plentiful, but weak and diluting, as intusions of balm, or of the lime-tree flowers; to which about a third or

fourth part of milk may be added.

If the fever be high, bleeding will be necessary; but this in very young children ought always to be sparingly performed. It is an evacuation which they bear the worst of any. Purging, vomiting, or sweating, agree much better with them, and are generally more beneficial. Harris, however, observes, that, when an influration appears, the physician will labor in vain, if the cure be not begun with applying a leach under each ear. If the child be seized with convulsion sits, a blistering plaster may be applied between the shoulders, or behind each ear.

Sydenham fays, that in fevers occasioned by teething, he never found any remedy to effectual as two, three, or four drops of spirits of her shorn in a sponful of simple water, or other convenient vehicle, given every four hours. The number of doses may be four, five, or six. I have often prescribed this medicine with success, but always found a larger dose necessary. It may be given from five drops to fifteen or twenty, according to the age of the child; and, when costiveness does not forbid it, three or four drops of lau-

danum may be added to each dole.

In Scotland, it is very common, when children are cuting their teeth, to put a small Burgundy-pitch plaster between their shoulders. This generally eases the tickling cough which attends teething, and is by no means a useless application. When the teeth are cut with difficulty, it ought to be kept on during the whole time of teething. It may be enlarged as occasion requires, and ought to be renewed at

least once a fortnight.

Several things have been recommended for rubing the gums, as oils, tracilages, &c. but from these, much is not to be expected.—If any thing of this kind is to be used, we would recommend a little fine honey, which may be rubed on with the singer three or four times a-day. Children are generally at this time disposed to chew whatever they get into their hands. For this reason they ought never to be without something that will yield a little to the pressure of their gums, as a crust of bread, a wax candle, a bit of liquorice root, or such like.

With regard to cuting the gums, we have seldom known it of any great benefit. In obstinate cases, however, it ought to be tried. It may be performed by the singer nail, the edge of a fix-penny piece that is worn thin, or any sharp body which can be with safety introduced into the mouth; but the lancet, in a skilful hand, is cer-

tainly the most proper.

In order to render the teething less difficult, parents ought to take. care that their children's food be light and wholesome, and that their nerves be braced by sufficient exercise without doors, the use of the cold bath, &c. Were these things doly regarded, they would have a much better effect than teething necklases, or other nonsensical amulets worn for that purpose.

OF THE RICKETS.

This disease generally attacks children between the age of nine months and two years. It appeared st. A in England about the time when manufactures began to sourish, and still prevails most in towers where the inhabitants follow sedentary employments, by which means they neglect either to take proper exercise themselves, or to

give it to their children.

CAUSES.—One canse of the rickets, is diseased parents. Mothers of a weak, relaxed habit, who neglect exercise, and live upon weak, watery diet, can neither be expected to bring forth strong and healthy children, or to be able to nurse them after they are brott forth. Accordingly we find, that the children of such women generally die of the rickets, the scrophula, consumptions, or such like directes. Children begotten by men in the decline of life, who are subject to the gout, the gravel, or other chronic diseases, or who have been often affected with the venereal disease in their youth, are likewise very liable to the rickets.

Any diforder that weakens the conflitution, or relaxes the habit of children, as the finall-pox, meafles, teething, the hooping-couple, &c. disposes them to this diktase. It may likewise be occasioned by improper dict, as food that is either too weak or watery, or so viscid

that the stomach cannot digest it.

Bad nurling is the chief cause of this discase. When the nurse is

either difeased, or has not enough of milk to nourish the child, is cannot thrive. But children suffer oftener by want of care in nurses, than want of food. Allowing an infant to lie or sit too much, or not keeping it thoroughly clean in its clothes, has the most pernicious effects.

The want of free air is likewife very hurtful to children in this respect. When a nurse lives in a close, small house, where the air is damp and confined, and is too indolent to carry her child abroad into the open air, it will hardly escape this disease. A healthy child should always be in motion, unless when asseep: if it be suffered to lie, or sit, instead of being tossed and dandled about, it will not thrive.

SYMPTOMS.—At the begining of this difease, the child's flesh grows foft and flabby, its strength is diminished, it loses its wonted cheerfulness, looks more grave and composed than is natural for its age, and does not choose to be moved. The head and belly become too large in proportion to the other parts; the face appears fulland the complexion florid. Afterwards the bones begin to be affected, especially in the more soft and spongy parts. Hence the wrifts and ancles become thicker than ufual, the spine or back bone puts on an unnatural shape, the breast is likewise often deformed. and the bones of the arms and legs grow crooked. All these symptoms vary according to the violence of the disease. The pulse is generally quick, but feeble; the appetite and digestion for the most part bad; the teeth come flowly and with difficulty, and they often rot and fall out afterwards. Rickety children generally have great acuteness of mind, and an understanding above their years. Whe. ther this is owing to their being more in the company of adults than other children, or to the preternatural enlargement of the brain, is not material.

REGIMEN.—As this difease is always attended with evident figns of weakness and relaxation, our chief aim in the cure must be to brace and strengthen the solids, and to promote the digestion and the due preparation of the sluids. These important ends will be best answered by wholesome neurishing diet, suited to the age and strength of the patient, open dry air, and sufficient exercise. If the child has a bad nurse, who either neglects her duty, or does not understand it, she should be changed. If the season be cold, the child ought to be kept warm; and when the weather is hot, it ought to be kept cool; as sweating is apt to weaken it, and too great a degree of cold has the same effect. The limbs should be rubed frequently with a warm hand, and the child kept as cheerful as possible.

The diet ought to be dry and nourishing, as good bread, roasted flesh, &c. Effeuit is generally reckoned the best bread; and pi-

geons, pullets, veal, rabbits, or mutton roafted or minced, are the most proper flesh. If the child be too young for flesh meats, he may have rice, millet, or pearl barley boiled with raisins, to which may be added a little wine and spide. His drink may be good claret mixed with an equal quantity of water. Those who cannot afford claret, may give the child now and then a wine glass or mild

ale, or good porter.

MEDICINE.—Medicines are here of little avail. The diferies may often be cured by the nurse, but seldom by the physician. In children of a gross habit, gentle vomits and repeated purges of rhuburb, may sometimes be of use, but they will seldom carry off the disease; that must depend chiefly upon such things as brace and strengthen the system: for which purpose, besides the regimententioned above, we would recommend the cold bath, especially in the warm season. It must however be used with pradence, as some rickety children cannot bear it. The best time for using the cold bath is in the morning, and the child should be well rubbed with a dry cloth immediately after he comes out of it.—If the child should be weakened by the cold bath, it must be discontinued.

Sometimes iffices have been found very beneficial in this difease. They are peculiarly necessary for children who abound with gross humors. An infusion of the Peruvian back in wine or ale would be of service, were it possible to bring children to take it. We might here mention many other medicines which have been recommended for the rickets; but as there is far more danger in trusting to these than in neglecting them altogether, we choose rather to possible mover, and to recommend a proper regimen, as the thing thirstly to be depended on.

OF CONVULSIONS.

Though more children are faid to die of convoltions than of any other disease, yet they are for the most part only a symptom of some other malady. Whatever greatly irritates or simulates the nerves, may occasion convolsions. Hence infants whose nerves are easily affected, are often thrown into convolsions by any thing that irritates the alimentary canal; likewise by teething, strait clothes, the approach of the small-pox, measles, or other cruptive diseases.

When convultions proceed from an initation of the florach or bowels, whatever clears them of their acrid contents, or renders these mild and inoffensive, will generally perform a core: wherefore, if the child be costive, the best way will be to begin with a clyster, and afterwards to give a gentle vomit, which may be repeated occasionally, and the body in the mean time kept open by

gentle doles of magnefia alba, or Intal quantities of thub ub mixed

with the powder of crab's class

Convultions which precede the erophous of the finall pox or mealles, generally go off upon these makes their appearance. The principal danger in this case at the archibe sears and apprehensions of those who have the care of the palicia. Convultions are very alarming, and something must be done to appeal the afficience parents, nurses, &c. Hence the unhappy intant often undergoes bleeding, bliftering, and several other operations, to the great danger of its life, when a little time, bashing the test in warm water, and throwing in a mild clifter, would have for all to rights.

When convultion fits arife from the cutting of teach, but des gentie evacuations, we would recommend bliftering, and the use of interpalmodic medicines, as the tincture of foot, africe ida, or cafor. A few drops of any of these may be mixed in a cub of white wine

whey, and given occasionally."

When convultions proceed from any external cause, as the presente occasioned by strait clothes, ban lages, &c. these ought immediately to be removed; though in this case taking away the cause will not always remove the effect, yet it ought to be done. It is not likely that the patient will recover, as long as the cause which first

gave rife to the diforder continues to act.

When a child is seized with convulsions, without having any complaint in the bowels, or symptoms of teething, or any rash or other discharge which has been suddenly dried up; we have reason to conclude that it is a primary disease, and proceeds immediately from the brain. Cases of this kind, however, happen but soldom, which is very fortunate, as little can be done to relieve the unhappy patient. When a disease proceeds from an original fault in the formation or structure of the brain itself, we cannot expect that it should yield to medicine. But as this is not always the cause, even of convolutions which proceed immediately from the brain, some attempts should be made to remove them. The chief intention to be pursued for this purpose, is to make some derivation from the head, by thistering, purging, and the like. Should these sail, issues or secons may be put between the shoulders.

#### OF WATER IN THE HEAD.

Though water in the head, or a dropfy of the brain, may affect adults as well as children, yet, as the latter are more peculiarly liable to it, we thought it would be most proper to place it among the difeases of infants.

CAUSES.—A dropfy of the brain may proceed from injuries done to the brain itself by talls, blows, or the like; it may takewife proceed from an original laxity or weakness of the brain; from

feirthus tun.ors, or excrefeences within the skull; a thin watery state of the blood; a diminished secretion of urine; and lastly, from tedious and lingering diseases, which waste and consume the

patient.

SYMPTOMS.—This disease has at first the appearance of a slow tever, the patient complains of a pain in the crown of his head, or over his eyes, he shound the light, is sick, and sometimes vomits; his pulse is irregular and generally low, though he seems heavy and dull, yet he does not sleep, he is sometimes delirious, and frequently sees objects double; towards the end of this commonly stall disease, the pulse becomes more frequent, the pupils are generally dilated, the cheeks slashed, the patient becomes comatose, and convulsions ensue.

MEDICINE.—No medicine has hitherto been found frsicient to carry off a dropfy of the brain. It is laudable, however, to make some attempts, as time or chance may bring many things to light, of which at present we have no idea. The medicines generally used are, purges of rhubarb or julap with calomel, and blistering plasters applied to the neck or back part of the head. To which we would beg leave to add diuretics, or medicines which promote the secretion of urine, such as are recommended in the common dropsy. A discharge from the nose ought likewise to be promoted by causing the patient to snuff the powder of asarum, white helebore, or the like.

Some practitioners have of late pretended to cure this difease by the use of mercury. I have not been so happy as to see any influnces of a cure being performed in a confirmed dropsy of the brain, but in so desperate a malady every thing deserves a trial.\*

#### C H A P. L

#### OFSURGERY.

TO describe all the operations of surgery, and to point out the different diseases in which these operations are necessary, would extend this article far beyond the limits alloted to it, we must therefore confine our observations to such cases as most generally occur, and in which proper assistance is either not asked, or not always to be obtained.

\* One resson why this disease is solden or never cured, may be, that it is solden known till too far advanced to admit of remedy. Did parents worth the first symptoms, and call a physician in due time, I am inclined to think that something might be done. But these symptoms

Though an acquaintance with the structure of the human body is indispensibly necessary to qualify a man for being an expert surgeon: yet many things may be done to save the lives of their fellow men, in emergences, by those who are no adepts in anatomy. It is amazing with what facility the peasants daily perform operations upon brutal animals, which are not of a less difficult nature than many of those performed on the human species; yet they seldom sail of success.

Indeed, every man is in some measure a surgeon, whether he will or not. He feels an inclination to assist his fellow-men in distress, and accidents happen every hour which give occasion to exercise this feeling. The feelings of the heart, however, when not directed by the judgment, are apt to missead. Thus one, by a rash attempt to save his friend, may sometimes destroy him; while another, for fear of doing amiss, stands still, and sees his bosom-friend expire, without so much as attempting to relieve him, even when the means are in his power. As every good man would wish to steer a course different from either of these, it will, no doubt, be agreeable to him to know what ought to be done upon such emergencies.

#### OF BLEEDING.

No operation of furgery is so frequently necessary as bleeding; it ought therefore to be very generally understood. But though practifed by mid-wives, gardeners, blacksmiths, &c. we have reason to believe that very sew know when it is proper.—Even physicians themselves have been so much the dupes of theory in this article, as to reaster it the subject of ridicule. It is however an operation of great importance, and must, when seasonably and properly performed, be of singular service to those in diffress.

Bleeding is proper in the begining of all inflamatory fevers, as pleurilies, peripneumonies. &c. It is likewife proper in all topical inflamations, as those of the intestines, womb, bladder, stomach, kidnier, throat, eyes, &c. as also in the asthma, sciatic pains, coughs, head-ache, rheumatisms, the apoplexy, epilepsy, and bloody flux. After talls, blows, bruices, or any violent hurt received either externally or internally, bleeding is necessary.—It is likewise necessary to persons who have had the minfortune to be strangled, drowned, suffected with foul air, the sumes of

are not yet fulficiently known, and are often millaken even by physicians themselves. Of this I lately saw a striking instance in a patient attended by an eminent practitioner of this city, who had all along mistaken the disease for teething.

metal, or the like. In a word, whenever the vital motions have been fuddenly flopt from any cause whatever, except in swoonings occasioned by mere weakness or hysteric affections, it is proper to open a vein. But in all disorders proceeding from a relaxation of the folids, and an impoverished state of the blood, as dropsies, caeochymies, &c. bleeding is improper.

Bleeding for topical inflamations ought always to be performed as near the part affected as possible. When this can be done with a lancet, it is to be preferred to any other method; but where a vein

cannot be found, recourfe must be had to leeches or cuping.

The quantity of blood to be let must always be regulated by the strength, age, constitution, manner of life, and other circumstances relating to the patient. It would be ridiculous to suppose that a child could bear to lose as much blood as a grown person, or that a delicate lady should be bled to the same extent as a robust man.

From whatever part of the body blood is to be let, a bandage must be applied between that part and the heart. As it is often necessary, in order to raise the vein, to make the bandage pretty tight, it will be proper in such cases, as soon as the blood begins to flow, to slocken it a little. The bandage ought to be applied at least an inch or an inch and half from the place where the wound is intended to be made.

Perfons not skilled in anatomy, never ought to bleed in a vein that lies over an artery or a tendon, if they can avoid it. The former may easily be known from its pullation or bearing, and the latter from its feeling hard or tight like a whipcord under the finger.

It was formerly a rule, even among those who had the character of being regular practioners, to bleed their patients in certain diseases till they fainted. Surely a more ridiculous rule could not be proposed. One person will faint at the sight of a lancet, while another will lose almost the whole blood of his body, before he faints. Swooning depends more upon the state of the mind than of the bedy; besides, it may of en be occasioned or prevented by the manner in which the operation is performed.

Children are generally bled with leeches. This, though forcetimes necessary, is a very troublesome and uncertain practice. It is impossible to know what quantity of blood is taken away by leeches; b sides, the bleeding is often very dishcult to stop, and the wounds are not easily healed. Would those who practice bleeding, take a livele more pains, and accustom themselves to bleed children, they

would not find it such a difficult operation as they imagine.

Certain hurtful prejudices with regard to bleeding, still prevail among the country people. They talk, for instance, of head veins, heart veins, breast veins, &c. and believe that bleeding in the will certainly cure all sileases of the parts from whence they are

fupposed to come, without considering that all the blood vessels arise from the heart, and return to it again; for which reason, unless in topical inflamations, it signifies very little from what part of the body blood is taken. But this, though a foolish prejudice, is not near so hurtful as the vulgar notion that the first bleeding will perform wonders. This belief makes them often postpone the operation when necessary, in order to reserve it for some more important occasion; and when they think themselves in extreme danger, they sly to it for relief, whether it be proper or not. Bleeding, at certain stated periods or seasons, has likewise bad essential.

It is a common notion that bleeding in the feet draws the humors downwards, and confequently cures difeases of the head, and other superior parts; but we have already observed, that in all the topical affections, the blood ought to be drawn as near the part as possible. When it is necessary, however, to bleed in the foot, or hand, as the veins are small, and the bleeding is apt to stop too soon, the part ought to be immersed in warm water, and kept there till a sufficient

quantity of blood be let.

We shall not spend time in describing the manner of performing this operation; that will be better learned by example than precept. Twenty pages of description would not convey so just an idea of the operation, as seeing it once performed by an expert hand. Neither is it necessary to point out the different parts of the body from whence blood may be taken, as the arm, foot, forehead, temples, neck, &c. These will readily occur to every intelligent person, and the foregoing observations will be sufficient for determining which of them is most proper upon any particular occasion. In all cases where the intention is merely to lessen the general mass of blood, the arm is the most commodious part of the body in which the operation can be performed.

#### OF INFLAMATIONS AND ABSCESSES.

From whatever cause an inflamation proceeds, it must terminate either by dispersion, suppuration, or gangrene. Though it is impossible to forestel with certainty in which of these ways any particular inflamation will terminate, yet a probable conjecture may be formed with regard to the event, from a knowledge of the patient's age and constitution. Inflamations happening in a fight degree upon colds, and without any previous indisposition, will most probably be dispersed; those which follow close upon a sever, or happen to persons of a gross habit of body, will generally suppurate; and those which attack very old people, or persons of a dropsical habit, will have a strong tendency to gangrene.

If the inflamation be flight, and the constitution found, the dispersion ought always to be attempted. This will be best promo-

ted by a flonder diluting diet, plentiful bleeding, and repeated purges. The part itself must be fomented, and, if the skin be very tense, it may be embrocated with a mixture of three-sourths of sweet-oil, and one-sourth of vinegar, and afterwards with a piece of wax

plaster.

If, notwithstanding these applications, the symptomatic fever increases, and the tumor becomes larger, with violent pain and pulsation, it will be proper to promote the suppuration. The best application for this purpose is a soft poultice, which may be renewed twice a day. If the suppuration proceeds but slowly, a law onion cut small, or bruised, may be spread upon the poultice. When the abscess is ripe, or sit for opening, which may easily be known from the thinness of the skin in the most prominent part of it, sluctuation of matter which may be felt under the singer, and generally speaking, an abatement of the pain, it may be opened either with a lancet, or by means of caustic.

The last way in which an inflamation terminates, is a gangrene or mortification, the approach of which may be known by the following symptoms: the inflamation loses its redness, and becomes dustiff or livid; the tension of the skin goes off, and it feels slabby; little bladders filled with ichor of different colors spread all over it; the tumor subsides, and from a duskish complexion becomes black; a quick, low pulse, with cold clammy sweats, are the immediate

forerunners of death.

When the fymptoms first appear, the parts ought to be dressed with London treacle, or a cataplasm of lixivium and bran. Should the symptoms become worse, the part must be scarified, and afterwards dressed with basilicon softened with oil of turpentine. All the dressings must be applied warm. With regard to internal medicines, the patient must be supported with generous cordials, and the Peruvian bark exhibited in as large doses as the stomach will bear it. If the mortified parts should suppurate, the wound will become a common ulcer, and must be treated accordingly.

This article includes the treatment of all those diseases, which, in different parts of the country, go by the name of biles, impost-bumes, whitles, &c. They are all abscesses, in consequence of a previous inflamation, which, if possible, ought to be discussed; but when this cannot be done, the supportation should be promoted, and the matter discharged by an incition, if necessary; afterwards the sore may be dressed with yellow basilicon, or some other digestive

cintment.

#### OF WOUNDS.

No part of medicine has been more mistaken than the treatment or cure of wounds. Mankind in general believe that certain herbs, ointments, and plasters, are possessed of wonderful healing powers, and imagine that no wound can be cured without the application of them. It is however a fact, that no external application whatever contributes towards the cure of a wound, any other way than by keeping the parts soft, clean, and defending them from the external air, which may be as effectually done by dry lint, as by the most pompous applications, while it is exempt from many of the bad consequences attending them.

The same observation holds with respect to internal applications. These only promote the cure of wounds as far as they tend to prevent a sever, or to remove any cause that might observed or impede the operations of Nature. It is Nature alone that cures wounds. All that Art can do, is to remove observes, and to put the parts in

fuch a condition as is the most favorable to Nature's efforts.

With this simple view we shall consider the treatment of wounds, and endeavor to point out such steps as ought to be taken to facilitate

their cure.

The first thing to be done when a person has received a wound is to examine whether any foreign body be lodged in it, as wood, stone, iron, lead, glass, dirt, bits of cloth, or the like. These, if possible, ought to be extracted, and the wound cleaned, before any dressings be applied. When that cannot be effected with safety, on account of the patient's weakness, or loss of blood, they must be suffered to remain in the wound, and afterwards extracted, when he is more able to bear it.

When a wound penetrates into any of the cavities of the body, as the breast, the bowels, &c. or where any considerable blood-vessel is cut, a skilful surgeon ought immediately to be called, otherwise the patient may lose his life. But sometimes the discharge of blood is so great, that if it be not stopt, the patient may die, even before a surgeon, though at no great distance, can arrive. In this case, something must be done by those who are present. If the wound be in any of the limbs, the bleeding may generally be stopt by applying a tight ligature or bandage round the member, a little above the wound. The best method of doing this, is to put a strong broad garter round the part, but so slack as easily to admit a small piece of stick to be put under it, which must be twisted in the same manner as a countryman does a cart-rope to secure his loading, till the bleeding stops. Whenever this is the case, he must take care to twist it no longer, as straining it too much might occasion an instantation of the parts, and endanger a gangrene.

In parts where this bandage cannot be applied, various other methods may be tried to stop the bleeding, as the application of styptics, astringents, &c. Cloths dipped in a solution of blue vitriol in water, or the styptic waters of the Dispensatories, may be applied to

the wound. When these cannot be obtained, strong spirits of wine may be used. Some recommend the agarie\* of the oak as preserable to any of the other styptics; & indeed it deserves considerable encomiums. It is easily obtained, and ought to be kept in every samily, in case of accidents. A piece of it must be laid upon the wound, and covered with a good deal of lint, above which a band-

age may be applied fo tight as to keep it firmly on.

Though fpirits, tinclures, and hot balfams may be used in order to stop the bleeding when it is excessive, they are improper at other times. They do not promote, but retard the cure, and often change a simple wound into an ulcer. People imaging, because hot balfams congeal the blood, and seem, as it were, to solder up the wound, that they therefore heal it; but this is only a deception. They may indeed stop the slowing blood, by searing the mouths of the vessels; but, by rendering the parts callous, they obstruct the cure.

In flight wounds, which penetrate not much deeper than the skin, the best application is a bit of common black sticking plaster. This keeps the sides of the wound together, and prevents the air from hurting it, which is all that is necessary. When a wound penetrates deep, it is not saie to keep its sips quite close; this keeps in the matter, and is apt to make the wound fester. In this case, the best way is to fill the wound with soft lint, commonly called caddis. It however must not be stuffed too hard, otherwise it will do hurt. The lint may be covered with a cloth dipped in oil, or spread with

<sup>\*</sup> Dr. Tissot, in his Advice to the People, gives the following directions for gathering, preparing, and applying the agaric. "Gather in autumn," says he, "while the fine weather lasts, the agaric of the oak, which is a kind of fungus or excrescence issuing from the wood of that tree. It consists at sirst of four parts, which present themselves successively: I. The outward rind or skin, which may be thrown away. 2. The part immediately under the rind, which is the hest of all. This is to be beat well with a hammer, till it becomes soft and very pliable. This is the only preparation it requires, and a slice of it of a proper size is to be applied directly over the bursting open blood vessels. It constringes and brings them close together, stops the bleeding, and generally falls off at the end of two days. 3. The third part, adhering to the second, may serve to stop the bleeding from the smaller vessels; and the fourth and tost part may be reduced to powder as conducing to the same purpose." Where the agaric cannot be had, sponze may be used in its stood. It must be applied in the same manner, and has nearly the same effect.

the common wax plaster\*; and the whole must be kept on by a

proper bandage.

We shall not spend time in describing the different bandages that may be proper for wounds in different parts of the body; common sense will generally suggest the most commodious method of applying a bandage; besides descriptions of this kind are not easily understood or remembered.

The felt dressing ought to continue on for at least two lays; after which it may be removed, and a fresh line applied as before. If any part of the first dressing sticks so glose as not to be removed with eale or safety to the patient, it may be allowed to continue, & fresh line dipped in sweet oil laid over it. This will soften it so as to make it come off easily at next dressing. Afterwards the wound may be dressed twice a day in the same manner till it be quite healed. Those who are fond of salves or ointments, may, after the wound has become very supersicial, dress it with the yellow basilicent; and if sungus, or what is called proud sless, should rite in the wound, it may be checked, by mixing with the ointment a little barat alum or red precipitate of mercury.

When a wound is greatly inflamed, the most proper application is a poultice of bread and milk, softened with a little sweet oil or fresh butter. This must be applied instead of a plaster, and should

be changed twice a day.

If the wound be large, and there be reason to sear an inflamation, the patient should be kept on a very low diet. He must abstain from flesh, strong liquors, and every thing that is of a heating nature. If he be of a sull habit, and has lost but little blood from the wound, he must be bled: and, if the symptoms be urgent, the operation may be repeated. But when the patient has been greatly weakened by loss of blood from the wound, it will be dangerous to bleed him, even though a sever should ensue. Nature should never be too sar enhanted. It is always more safe to allow her to struggle with the disease in her own way, than to sink the patient's strength by excessive evacuations.

Wounded persons ought to be kept persectly quiet and easy.— Every thing that russles the mind or moves the passions, as love, anger, sear exercisive joy, etc. are very hurtful. They ought above all things to abstain from venery. The body should be kept gently open, either by lazative clysters, or by a cool vegetable diet, as roasted apples, stued prunes, boiled spinnage, and such like:

<sup>\*</sup> See Appendix, Wax Plaster.

<sup>†</sup> See Appendix, Yellow Basilicon.

OF BURFS.

In flight burns which do not break the skin, it is customary to hold the part near the fire for a competent time, to rub it with salt, or to lay a compress upon it diped in spirits of wine or brandy. But when the burn has penetrated so deep as to blister or break the skin, it must be dressed with some of the liniment for burns mentioned in the Appendix, or with the emolient and gently drying ointment, commonly called Turner's cerate.\* This may be mixed with an equal quantity of fresh olive oil, and spread upon a soft rag, and applied to the part affected. When this cintiment cannot be had, an egg may be beat up with about an equal quantity of the sweetest sallad oil. This will serve very well till a proper ointment can be prepared. When the burning is very deep, after the first two or three days, it should be dressed with equal parts of yellow basilicon and Turner's cerate mixed together.

When the burn is violent, or has occasioned a high degree of inflamation, and there is reason to sear a gangrene or mortification, the same means must be used to prevent it as are recommended in other violent inflamations. The patient in this case, must live low, and drink freely of weak diluting liquors. He must likewise be bled, and have his body kept open. But if the burnt parts should become livid or black, with other symptoms of mortification, it will be necessary to bathe them frequently with warm camphorated spirits of wine, tincture of myrth, or other antisceptics, mixed with a decoction of the bark. In this case the bark must likewise be taken internally, and the patient's diet must

be more generous.

As example teaches better than precept, I shall relate the treatment of the most dreadful case of this kind that has occurred in my practice. A middle-aged man, of a good constitution, sell into a large vessel sull sold begins water, and miserably scalded about one half of his body. As his clothes were on, the burning in some parts was very deep before they could be got off. For the first two days the scalded parts had been frequently anointed with a mixture of lime-water and oil, which is a very proper application for recent burnings. On the third day, when I first saw him, his sever was high, and his body costice, for which he was bled, and had an emollient clyster administered. Positices of bread and milk, softened with fresh butter, were likewise applied to the affected parts, to abate the heat and inflamation. His sever still continuing high, he was bied a second time, and

<sup>\*</sup> See Appendix, Turner's cerate.

was kept strictly on the cooling regimen, took the salice mixture with small doses of nitre, and had an emollient clyster administered once a day. When the inflamation began to abate, the parts were dressed with a digestive composed of brown cerate and yellow basilicon. Where any black spots appeared, they were slightly scarified, and touched with the tincture of myrrh; and, to prevent their spreading, the Peruvian bark was administered. By this course, the man was so well in three weeks as to be able to attend his business.

#### OF BRUISES.

Bruises are generally productive of worse consequences than wounds. The danger from them does not appear immediately, by which means it often happens that they are neglected. It is needless to give any definition of a disease so universally known; we shall therefore proceed to point out the method of treating it.

In flight bruifes it will be sufficient to bathe the part with warm vinegar, to which a little brandy or rum may occasionally be added, and to keep cloths wet with this mixture constantly applied to it. This is more proper than rubbing it with brandy, spirits of wine, or other ardent spirits, which are commonly used in such cases.

In some parts of the country the pealants apply to a recent bruise a cataplasm of sresh cow-dung. I have often seen this cataplasm applied to violent contusions occasioned by blows, falls, bruises, and such like, and never knew it fail to have a good

When a bruife is very violent, the patient ought immediately to be bled, and put upon a proper regimen. His food should be light and cool, and his drink weak, and of an opening nature; as whey sweetened with honey, decoction of tamarinds, barley, cream-tartar-whey, and such like. The bruifed parts must be bathed with vinegar and water, as directed above; and a poultice made by boiling crumb of bread, elder-flowers, and camomile flowers in equal quantities of vinegar and water, applied to it. This poultice is peculiarly proper when a wound is joined to the bruise. It may be renewed two or three times a-day.

As the firmflure of the veffels is totally destroyed by a violent bruise, there often ensues a great loss of substance, which produces an ulcerous fore very difficult to cure. If the bone be affected, the fore will not heal before an exfoliation takes place; that is, before the diseased part of the bone separates, and comes out through the wound. This is often a very flow operation, and may even require several years to be completed. Hence it happens, that these fores are frequently mistaken for the King's evil,

and treated as such, though in fact they proceed solely from the in-

july which the folid parts received from the blow.

Patients, in this fituation, are peftered with different advices.— Every one who fees them, proposes a new remedy, till the fore is so much irritated with various and opposite applications, that it is often at length rendered absolutely incurable. The best method of managing such fores is, to take care that the patient's constitution does not suffer by confinement, or improper medicine, and to apply nothing to them besides simple ointment spread upon soft lint, over which a poultice of bread and milk, with boiled camomile-flowers, or the like, may be put, to nourish the part, and keep it soft and warm. Nature, thus assisted, will generally in time operate a cure, by throwing off the diseased parts of the bone, after which the fore soon heals.

#### OF ULCERS.

Ulcers may be the consequence of wounds, bruises, or imposthumes improperly treated; they may likewise proceed from an ill state of the humors, or what may be called a bad habit of body.

In the latter case, they ought not to be hastily dried up, otherwise it may prove satal to the patient. Ulcers happen most commonly in the decline of life; and persons who neglect exercise, and live grossy, are most liable to them. They might often be prevented by retrenching some part of the solid sood, or by opening artificial drains, as issues, setons, or the like.

An ulcer may be diffinguished from a wound, by its discharging a thin watery humor, which is often so acid as to inflame and corrode the skin; by the hardness and perpendicular situation of its sides or

edges; by the time of its duration, &c.

It requires confiderable skill to be able to judge whether or not an ulcer ought to be dried up. In general, all ulcers which proceed from a bad habit of body, should be suffered to continue open, at least till the constitution has been so far changed by proper regimen, or the use of medicine, that they seem disposed to heal of their own accord. Ulcers, which are the effect of malignant fevers, or other acute diseases, may generally be healed with satety, after the health has been restored for some time. The cure ought not, however, to be attempted too foon, nor at any time without the use of purging medicines, and a proper regimen. When wounds or bruiles have, by wrong treatment, degenerated into ulcers, if the constitution be good, they may generally be healed with fafety. When ulcers either accompany chronical difeases, or come in their stead, they must be cautioutly healed. If an ulcer conduces to the patient's health, from whatever caute is proceeds, it ought not to be healed; but if, on the 3 5

contrary, it wastes the strength, and consumes the patient by a flow

fever, it should be healed as soon as post ble.

We would earneally recommend a firial attention to these particulars, to all who have the misfortune to labor under this diforder, particularly persons in the decline of life; as we have frequently known people throw away their lives by the want of it, while they were extoling and generously rewarding those whom they ought to

have looked upon as their executioners.

The most proper regimen for promoting the cure of ulcers, is to avoid all spices, salted, and high-seasoned food, all strong liquore, and to lessen the usual quantity of flesh meat. The body ought to be kept gently open by a diet confisting chiefly of cooling laxative vegetables, and by drinking buttermilk, whey fweetened with honey, or the like. The patient ought to be kept cheerful, and should take as much exercise as he can easily bear.

When the bottem and odes of an ulcer feem hard and callous, they may be sprinkled twice a day with a little red precipitate of mercury, and afterwards dreffed with the yellow bosilicon ointment. Sometimes it will be necessary to have the edges of the ulcer scarified

Lime-water has frequently been known to have very happy effects in the ore of obstinate ulcers. It may be used in the same

manner as directed for the stone and gravel.

My late learned and ingenious friend, Dr. Whytt, strongly recommends the use of the solution of corrosive sub-imate of mercury in brandy, for the cure of obstinate ill-conditioned ulcers. frequently found this medicine, when given according to the Doctor's direction, prove very successful. The dose is a table-spoonful night and morning, at the fame time washing the fore twice or thrice a day with it. In a letter which I had from the Doctor, a little before his death, he informed me, "That he observed wathing the fore thrice a day, with a folution of a triple flrength, was very beneficial." \*

A fiftulous ulcer can feldom be cured without an operation. It must either be laid open, so as to have its callous parts destroyed by fome corrofive application, or they must be entirely cut away by the knife; but as this operation requires the hand of an expert furgeon, there is no occasion to describe it. Ulcers about the anus are most apt to become fistulous, and are very difficult to cure.-Some, indeed, pretend to have found Ward's Fiffula Pafte very fuccessful in this complaint. It is not a dangerous medicine, and

<sup>\*</sup> In ulcers of the lower limbs, great benefit is often received from tight rollers, or wearing a laced stocking, as this prevents the flux of humors to the fores, and disposes trem to heal.

being easily procured, it may deserve a trial; but as these ulcers generally proceed from an ill habit of body, they will seldom yield to any thing except a long course of regimen, assisted by medicines, which are calculated to correct that particular habit, and to induce an almost total change in the constitution.

#### C H A P. LI.

#### OF DISLOCATIONS.

HEN a bone is moved out of its place or articulation, so as to impede its proper functions, it is said to be laxated, or difficated. As this often happens to persons in situations where no medical affistance can be obtained, by which means limbs, and even lives, are frequently lost, we shall endeavor to point out the method of reducing the most common luxations, and those which require immediate assistance. Any person of common sense and resolution, who is present when a dislocation happens, may often be of more service to the patient, than the most expert surgeon can after the swelling and instantation have come on. When these are present, it is difficult to know the state of the joint, and dangerous to attempt a reduction; and by waiting till they are gone off, the muscles become relaxed, and the cavity filled up, that the bone can never afterwards be retained in its place.

A recent diflocation may generally be reduced by extension alone, which must always be greater or less according to the strength of the muscles which move the joint, the age, robustness, and other circumstances of the patient. When the bone has been out of its place for any considerable time, and a swelling or influention has come on, it will be necessary to bleed the patient, and after sometime the part, to apply soft poultices with vinegar to it, for some time before

the reduction is attempted.

All that is necessary after the reduction, is to apply cloths dipt in vinegar, or camphorated spirits of wine, to the part, and to keep it perfectly easy. Many bad consequences proceed from the neglect of this ride. A dissocation seldom happens without the tendors and gaments of the joint being stretched, and sometimes to in. When these are kept easy till they recover their strength and tone, all goes on very well: but if the injury be increased by too frequent an exertion of the parts, no wonder if they be found weak and discased ever after

DISLOCATION OF THE JAW.

The lower jaw may be luxated by yawning, blows, falls, chewing hard fubiliances, or the like. It is easily known from the patient's being unable to shut his mouth, or to eat any thing, as the teeth of the under jaw do not correspond with those of the upper; besides, the chin either hangs down, or is thrown towards one side, and the patient is meither able to speak distinctly, nor to swallow, without

confiderable difficulty.

The usual method of reducing a dislocated jaw, is to set the patient upon a low stool, so as an affistant may hold the head firm by pressing it against his breast. The operator is then to thrust his two thumbs, (being first wraped up with linen cloths that they may not slip) as far back into the patient's mouth as he can, while his singers are applied to the jaw externally. After he has not firm hold of the jaw, he is to press it strongly downwards and backwards, by which means the elapsed heads of the jaw may be easily pushed into their former cavities.

The peafants in some parts of the country have a peculiar way of performing this operation. One of them puts a handkerchief under the patient's chin, then turning his back to that of the patient, rulls him up by the chin, so as to suspend him from the ground. This method often succeeds, but we think it a dangerous one, and there-

fore recommend the former.

#### DISLOCATION OF THE NECK.

The neck may be diflocated by falls, violent blows, or the like. In this case, if the patient receives no affistance, he foon dies, which makes people imagine that the neck was broken; it is, however, for the most part, partially diflocated, and may be reduced by almost any person who has resolution enough to attempt it. A complete diflocation of the neck is instantaneous death.

When the neck is diflocated, the patient is immediately deprived of all fense and motion; his neck swells, his countenance appears bloated, his chin lies upon his breast, and his face is generally turned

towards one fide.

To reduce this diflocation, the unhappy person should immediately be laid on his back upon the ground, and the operator must place himself behind him, so as to be able to lay hold of his he I with both hands, while he makes a resistance by placing his knees against the patient's shoulders. In this posture he must pull the head with considerable force, gently twisting it at the same time, if the face be turned to one side, till he perceive that the joint is replaced, which may be known from the noise which the bones gen-

erally make when going in, the patient's beginning to breathe, and

the head continuing in its natural posture.

This is one of those operations which it is more cast to perform than describe. I have known instances of its being happily performed, even by womer, and often by men of no medical education.—After the neck is reduced, the patient ought to be bled, and should be suffered to rest for some days, till the parts recover their proper tone.

#### DISLOCATION OF THE RIBS.

As the articulation of the ribs with the back bone, is very strong, they are not often differented. It does however sometimes happen, which is a sufficient reason for our taking notice of it. When a rib is disposated either upwards or downwards, in order to replace it, the patient should be laid upon his belly upon a table, and the operator must endeavor to pash the head of the bone into its proper place. Should this method not succeed, the arm of the disordered side may be suspended over a gate or ladder, and, while the ribs are thus stretched asunder, the heads of such as are out of place may be thrust into their former situation.

Those dislocations wherein the heads of the ribs are forced inwards, are both more dangerous and the most difficult to reduce, as neither the hand nor any infirument can be applied internally to direct the luxated heads of the ribs. Almost the only thing that can be done is, to lay the patient upon his belly over a cask, or some gibbons body, and to remove the fore part of the rib inward towards the back, sometimes shaking it; by this means the head of the lux-

ated ribs may flip into their former place.

#### DISLOCATION OF THE SHOULDER.

The humerous or upper bone of the arm may be diflocated in various directions: it happens however most frequently downwards, but very seldom directly upwards. From the nature of its articulation, as well as from its exposure to external injuries, this bone is the most subject to dislocation of any in the body. A dislocation of the humerus may be known by a depression or cavity on the top of the shoulder, and an inability to move the arm. When the dislocation is downward or forward, the arm is elongated, and a ball or lomp is perceived under the arm-pit; but when it is backward, there appears a prosuberance behind the shoulder, and the arm is thrown sorward towards the breast.

The usual method of reducing diflocations of the shoulder, is to feat the patient upon a low sool, and to cause an affistant to hold his lody so that it may not give way to the extension, while another lays hold of the arm a little above the clow, and gradually extend.

it. The operator then puts a napkin under the patient's arm, and causes it to be tied behind his own neck: by this, while a sufficient extension is made, he lifts up the head of the bone, and with his hands directs it into its proper place. There are various mad thes invented for facilitating this operation, but the hand of an expert surgeon is always more fale. In young and delicate patients, I have generally found it a very easy matter to reduce the shoulder, by extending the arm with one hand, and thrusting in the head of the bone with the other. In making the extension, the arm ought always to be a little bent.

DISLOCATION OF THE ELBOW. .

The bones of the fore arm may be differed in any direction. When this is the case a protubecause may be obleved on that the of the arm towards which the bone is pulhed, from which, and the patient's inability to bend his arm, a inflocation of this joint may

easily be known.

Two assistants are generally necessary for reducing a dislocation of the elbow; one of them must be hold of the arm above, and the other below the joint, and make a pretty strong extension, while the operator returns the bones into their proper place. Asterwards the arm must be bent, and suspended for some time with a sling about the neck.

Luxations of the will and fingers are to be reduced in the filme manner as those of the elbow, via. by making an extension in different directions, and thrusting the head of the bone into its place.

DISLOCATION OF THE THIGH.

When the thigh bone is diflocated forward or downward the knee and foot are turned out, and the leg is longer than the other, but when it is displaced backwards, it is usually pushed upward at the same time, by which means the limb is shortened, and the

foot is turned inwards.

Woen the thigh bune is displaced forward, and downward, the pa ient, in order to bave it reduced, must be laid upon his back, and made fast by bandages, or held by assistants, while by others are extension is made by means of sings fixed about the bottom of the thigh, a little above the knee. While the extension is made, the operator must out the head of the bone outward, till it get, into the socket. If the dislocation be outward, the pat ent must be laid upon his face, and, during the extension, the head of the bone must be pushed inward.

Diffocations of the knees, ancles, and toes, are reduced much in the fame manner as those of the upper extremities, viz. by making an extension in opposite directions, while the operator replaces to

bones. In many cases, however, the extension alone is sufficient, and the bone will slip into its place merely by pulling the limb with sufficient force. It is not hereby meant, that torce alone is sufficient for the reduction of dislocations. Skill and address will often succeed better than force. I have known a dislocation of the thigh reduced by one man, after all the force that could be used by six had proved inessecution.

### C H A P. LII.

## OF BROKEN BONES, &c.

to the art of reducing fractures. Though in general fuch persons are very ignorant, yet some of them are very successful; which evidently proves, that a small degree of learning, with a sufficient share of commer. sense, and a mechanical head, will enable a man to be useful in this way. We would, however, advise people never to employ such operators, when an expert and skilful surgeon can be had; but when that is impracticable, they must be employed; we shall therefore recommend the following lams to their consideration:

When a large bone is broken, the patient's diet ought in all refrects to be the same as in an inflamatory fever. He should likewise be kept quiet and cool, and his body open by emollient clysters; or, if these cannot be conveniently administered, by food that is of an opening quality, as stewed prunes, apples boiled in milk, boiled spinnage, and the like. It ought, however, to be here remarked, that persons who have been accustomed to live high, are not all of a student to be reduced to a very low diet. This might have statl effects. There is etten a necessity for indulging even bad habits, in some measure, where the nature of the disease might require a different treatment.

It will generally be necessary to bleed the patient immediately after a fracture, especially if he be young, of a full habit, or has at the same time received any bruise or contusion. This operation should not only be performed soon after the accident happens, but it the patient be very severish, it may be repeated next day. When several of the ribs are broken, bleeding is peculiarly necessary.

If any of the large bones which support the body are broken, the patient must keep his bed for several weeks. It is by no means necessary, however, that he should lie all that time, as is costomary, upon his back. This situation sinks the spirite, galls

and frets the patient's skin, and renders him very uneasy. After the second week he may be gently raised up, and may sit several hours, supported by a bed-chair, or the like, which will greatly relieve him. Great care, however, must be taken in raising him up, and laying him down, that he may make no exertions himself, otherwise the action of the muscles may pull the bone out of its place \*

It is of great importance to keep the patient dry and clean, while in this fituation. By neglecting this, he is often to galled and excorlated, that he is forced to keep thifting places for eafe. I have known a fractured thigh bone, after it had been kept straight for above a formight, displaced by this means, and continue bent for

life, in spite of all that could be done.

It has been customary, when a bone was broken, to keep the limb, for five or fix weeks, continually upon the stretch. But this is a bad posture. It is both uneasy to the patient, and unfavorable to the cure. The best situation is to keep the limb a little bent. This is the posture into which every animal puts its limbs when it goes to rost, and in which sewest muscles are upon the stretch.—It is easily effected, by either lying the patient upon his side, or making

the bed so as to favor this position of the limb.

Bone-feters ought carefully to examine whether the Lone be not shattered or broken into several pieces. In this case it will sometimes be necessary to have the limb immediately taken off, otherwise a gangrene or mortification may ensue. The horror which attends the very idea of an amp nation, often occasions its being delayed in such cases till too lite. I have known this principle operate so strongly, that a limb, where the bones were shattered into more than twenty pieces, was not amputated before the third day after the accident, when the gangrene had proceeded so far as to render the operation useless.

<sup>\*</sup>Various pieces of machinery have been contrived for counterating the force of the muscles, on! retaining the fragments of broken bones; but as descriptions of these without drawings would be of little use, I shall refer the reader to a cheap and ustail performance on the nature and cure of fractures, lately published by my ingenious friend Mr. Aithen, surgeon in Edinburgh; wherein that gentleman has not only given an account of the machines recommended in fractures by sommer authors, but has likewise added several improvements of his own, which are pseuliarly useful in compound fractions, and in cases where patients with broken bones are obliged to be transported from one place to weather.

When a fracture is accompanied with a wound, it must be dress-

ed in all respects as a common wound.

All that are can do towards the cure of a broken bone, is to lay it perfectly streight, and to keep it quite easy. All tight bandages do hurt. They had much better be wanting altogether. A great many of the bad consequences which succeed to factured bones are owing to tight bandages. This is one of the ways in which the excess of art, or rather the abuse of it, does more mischief than would be occasioned by the want of it. Some of the most sudden cures of broken bones which were ever known, happened where no bandages were applied at all. Some method however must be taken to keep the thember steedy; but this may be done many ways without bracing it with a tight bandage.

The best method of retention is by two or more splints made of leather or pasteboard. These, is moistened before they be appled, soon assume the thape of the included member, and are sufficient by the assistance of a very slight bandage, for all the purposes of retention. The bandage which we would recommend is that made with twelve or eighteen tails. It is much easier applied and taken off than rollers, and answers all the purposes of retention equally well. The splints should always be as long as the limb, with holes cut for

the ancles when the frocture is in the leg.

In fractures of the ribs, where a bandage cannot be properly used, an adhesive plaster may be applied over the part. The parient in this case ought to keep himself quite easy, aveiding every thing that may occasion sheezing, laughing, coughing, or the like. He ought to keep his body in a straight posture, and should take care that his stomach be constantly differed, by taking trequently some light tood, and drinking treely of weak watery liquors.

The n-oft proper external application for a fracture is experce, or a mixture of vinegar and water. The bandage should be wet

with this at every dreffing.

#### OF STRAINS.

Strains are often attended with worse consequences than broken bones. The reason is obvious; they are generally neglected. When a bone is broken, the patient is obliged to keep the metabor easy, because he cannot make use of it; but when a joint is only strained, the person, finding he can still make a shift to use it, is story to I se his time for so trissing an ailment. In this way he deceives himself, and converts into an incurable malady what might have been removed by only keeping the part easy a few days.

Country people generally immerie a firsted limb in cold water. This is very proper, provided it be done immediately, and not kept in the large. But the cuttom of keeping the part immerfed in cold

water for a long time is certainly dangerous. It relates inflead of bracing the part, and is more likely to produce a difease than remove one.

Wrapping a garter or some other bandage, pretty tight about the siralned part, is likewise of use. It helps to restore the proper tone of the vessels, and prevents the action of the parts from increasing the disease. I should not however be applied too tight. I have to quently known bleeding near the affected part have a very good effect; but what we would recommend above all is ease. It is more to be depended on than any medicine, and soldem fails to remove the complaint.\*

#### OF RUPTURES.

Children and old people are most liable to this disease. In the former it is generally occasioned by excessive crying, coughing, romiting, or the like. In the latter it is commonly the essect of blows or violent exertions of the strength, as leaping, carrying great weights, &c. In both, a relaxed habit, indolence, and an oily or very moist diet, dispose the body to this disease.

A rupture sometimes proves satal before it is discovered. Whenever Eckness, vomiting, and obstinate costiveness give reason to suspect an obstruction of the bowels, all those places where ruptures usually happen ought carefully to be examined. The protrusion of a very small part of the gut will occasion all these symptoms; and, if not returned in due time will prove mertal.

On the fift appearance of a rupture in an infant, it ought to be laid upon its back, with its head very low. While in this posture, if the gut does not return or itself, it may cashly be put up by gentle pressure. After it is returned, a piece of sticking plasser may be applied over the part, and a proper truss or bandage must be constantly worn for a considerable time. The method of making and applying these rupture bandages for children is pretty well known. The child must as far as possible, be kept from crying, and from all violent exertions, till the rupture is quite healed

In adults, when the gut has been forced down with great violence, or happens from any cause to be inflamed, there is often great difficulty in returning it, and sometimes the thing is quite

<sup>\*</sup> A great many external applications are recommended for strains, some of which do good, and others hurt. The following are such as may be used with the greatest safety, viz. poultices made of stale beer or vinegar and oatmeal, comphorated spirits of wine, Mindererus's spirits, volatile linament, volatile aromatic spirits diluted with a double quantity of water, and the common someonsation, with the addition of brandy or spirits of wine.

impracticable wi hout an operation: a description of which is soreign to our purpose. As I have been fortunate enough, however, always to succeed in my attempts to return the gut, without having recourse to any other means then what are in the power of every man, I shall briefly mention the method which I generally pursue.

After the patient has been bled, he must be laid upon his back, with his head very low, and his breech raifed high with pillows. In this fituation, flannel cloths wring out of a decoction of mallows and camomile flowers, or, if these are not at hand, of warm water, must be applied for a considerable time. A clyster made of this decoction, with a large spoonful of butter, and an ounce or two of falt, may be afterwards thrown up. If these should not prove succefsful, recourse must be had to pressure. If the tumor be very hard, confiderable force will be necessary, but it is not force alone which fucceeds here. The operator, at the same time that he makes a pressure with the palms of his hands, must, with his fingers, art. fully conduct the gut in by the same aperture thro' which it came out. The manner of this can be much easier conceived than defcribed. Should these endeavors prove inestectual, clysters of the smoke of tobacco may be tried. These have been often known to forceed where every other method failed.

There is reason to believe that, by persisting in the use of these, and such other means as the circumstances of the case may suggest, most bernias might be reduced, without an operation.—Cuting for the bernia is a nice and difficult matter. I would therefore advise surgeons to try every method of returning the gut, before they have recourse to the knife. I have once and again succeeded by persevering in my endeavors, after eminent surgeons had declared the

reduction of the gut impracticable without an operation.\*

An adult, after the gut has been returned, flould wear a fteel bandage. It is needless to describe this, as it may always be had ready made from the artists. Such bandages are generally uneasy to the weater for some time, but by cust on they become quire easy. No person who has had a rupture after he arrived at man's estate should ever he without one of these bandages.

<sup>\*</sup> I would here beg leave to recommend it to every practitioner, when his patient complains of pain in the belly, with obstinate costiveness, to examine the grains, and every place where a rupture may happen, in order that it may be immediately reduced. By neglecting this, many ferish who were never suspected to have had ruptures till after they were dead. I have known this happen where half a dozen of the faculty were in attendance.

Perfons who have a rupture ought carefully to avoid all violent exercise, carrying great weights, leaping, runing, and the like.—
They should likewise avoid windy aliment and strong liquors; and should carefully guard against catching cold.

# C H A P. LIII. OF CASUALTIES.

IT is certain that life, when to all appearance loft, may often, by L due care, be restored. Accidents frequently prove fatal, merely because proper means are not used to counteract their effects. person ought to be looked upon as killed by accident, unless where the structure of the heart, brain, or some organ necessary to life, is evidently destroyed. The action of these organs may be so far impaired as even to be for some time imperceptible, when life is by no means gone. In this case, however, if the fluids be suffered to grow cold, it will be impossible to put them again in motion, ever though the folids should recover their power of acting. Thus, when the motion of the lungs has been stopt by unwholesome vapor, the action on the heart, by a stroke on the breast, or the functions of the brain, by a blow on the head, if the person be suffered to grow cold, he will, in all probability, continue to; but, if the body be kept warm, as foon as the injured part has recovered its power of acting, the fluids will again begin to move, and all the vital functions will be restored.

It is a horrid custom immediately to consign over to death every person who has the missortune, by a fall, a blow, or the like, to be deprived of the appearance of life. The unhappy person, instead of being corried into a warm house, and leid by the fire, or put to a warm bed, is generally hurried away to church, or a barn, or some other cold damp house, where, after a fruitless attempt has been made to bleed him, perhaps by one who knew nothing of the matter, he is given over for dead, and no further notice taken of him—This conduct seems to be the result of ignorance, supported by an ancient superstitious notion, which forbids the body of any person killed by accident to be laid in an house that is inhabited. What the ground of this superstition may be, we shall not pretend to inquire; but surely the conduct sounded upon it is contrary to all

When a person seems to be suddenly deprived of life, our first business is to inquire into the cause. We ought carefully to observe whether any substance be lodged in the windpipe or gullet; and, if

that is the case, attempts must be made to remove it.

the principles of reason, humanity, and common sense.

When unwholesome air is the cause, the patient ought immediately to be removed out of it. If the circulation be suddenly stoped, from any cause whatever, except mere weakness, the patient should be bled. If the blood does not flow, he may be immersed in warm water, or rubbed with warm cloths, &c. to promote the circulation. When the cause cannot be suddenly removed, our great aim must be to keep up the vial warmth, by rubbing the parient with hot cloths, or falt, and covering his body with warm sand, ashes, or the like.

I should now proceed to treat more fully of those accidents, which, without immediate affishance, would often prove fatal, and to point out the most likely means for relieving the unhappy sufferers; but as I have been happily anticipated in this part of my subject by the learned and humane Dr. Tissot, I shall content myself with selecting such of his observations as seem to be the most important, and adding such of my own as have occured in the course

of practice.

# OF SUBSTANCES STOP F BETWEEN THE MOUTH AND STOMACH.

Though accidents of this kind are very common, and extremely dangerous, yet they are generally the effect of carelefness. Children should be taught to chew their food well, and to put nothing into their mouths which it would be dangerous for them to swallow.—But children are not the only persons guilty of this piece of imprudence. I know many adults who put pins, nails, and other sharp pointed substances in their mouths upon every occasion, and some who even sleep with the former there all night. This conduct is exceedingly injurious, as a fit of coughing, or twenty other accidents

may to co over the substance before the person is awake.\*

When any substance is detained in the gillet, there are two ways of removing it, viz. either by extracting it, or pushing it down.—The safest and most certain way is to extract it; but this is not always the easiest: it may therefore be more eligible sometimes to thrust it down, especially when the obstructing body is of such a nature, that there is no danger from its reception into the stomach. The substances which may be pushed down without danger are, all common neurishing ones, as bread, such, stomach, such the like. All indigestible bodies, as cork, wood, bones, pieces of metal, and such like, ought, if possible, to be extracted, especially if these bodies be than pointed, as pins, needler, sish-bones, bits of glass, &c.

<sup>\*</sup> A worn to in one of the hospitals of this city lately discharged a great number of p is, which she had swallowed in the course of her business, for, g, on when in her side.

When such substances have not passed in too deep, we should endeavor to extract them with our singers, which method often succeeds. When they are lower, we must make use of nippers, or a small pair of forceps, such as surgeons use. But this attempt to extract rarely succeeds, if the substance be of a flexible nature, and

has descended far into the gullet.

If the fingers and nippers fail, or cannot be duly applied, crotchets, a kind of hooks, must be employed. These may be made at once, by bending a strong piece of iron wire at one end. It must be introduced in the flat way; and for the better conducting of it, there should likewise be a curve or bending at the end it is held by, to serve as a kind of handle to it; which has this further use, that it may be secured by a string tied to it, a circumstance not to be emitted in any instrument employed on such occasions, to avoid such ill accidents as have sometimes ensued from these instruments slipping out of the operator's hand. After the crotchet has passed below the substance that obstructs the passege, it is drawn up again, and hooks up the body along with it. The crotchet is also very convenient, when a substance somewhat slexible, as a pin or fishbone sticks across the gullet, the hook, in such cases, seizing them about their middle part, crocks, and thus disengages them; or, if

they are very brittle substances, serves to break them.

When the obstructing bodies are small, and only stop up a part of the passage, and which may either clude the hook, or threighten it by their reliftance, a kind of rings, made either of wire, wool, or filk, may be used. A piece of fine wire of a proper length may be bent into a circle, about the middle, of about an inch diameter, and the long unbent fides brought parallel, and near each other;these are to be held in the hand, and the circular part or ring introduced into the gullet, in order to be conducted about the obstructing body, and so to extract it. More flexible rings may be made of wool, thread, filk, or fmall pack-thread, which may be waxed for their greater strength and consistence. One of these is to be tied fast to a handle of iron wire, whale bone, or any kind of flexible wood, and by this means introduced, in order to furround the obstructing substance, and to draw it out. Several of these rings paifed through one another, may be used, the more certainly to lay hold of the obstructing body, which may be involved by one, if another should miss it. These rings have one advantage which is, that when the substance to be extracted is once laid hold of, it may then, by turning the handle, be retained fo strongly in the ring thus twifted, as to be moved every way, which must in many cases be a confiderable advantage.

Another material employed on these unhappy occasion is the sponge. Its property of swelling considerably on being wet is the

principal foundation of its usefulness here. If any substance is stopt in the gullet, but without fillingup the whole passage, a bit of sponge may be introduced into that part which is unstopt, and beyond the substance. The sponge soon dilates, and growe larger in this moist situation; and indeed the enlargement of it may be forwarded by making the patient swallow a few drops of water. Asterwards it is to be drawn back by the handle to which it is fastened; and as it is now too large to return through the small cavity by which it was conveyed in, it draws out the obstructing body along with it.

The compressibility of sponge is another foundation of its usefulness in such cases. A pretty large piece of sponge may be compressed or squeezed into a small size, by winding a string of tape closely about it, which may be easily unwound, and withdrawn, after the sponge has been introduced. A bit of sponge may likewise be compressed by a piece of whale bone split at one end; but this can hardly be introduced in such a manner as not to hurt the patient.

I have often known pins and other sharp bodies, which had sluck in the throat, brought up by causing the person to swallow a bit of tough meat sied to a thread, and drawing it quickly up again.

This is fafer than swallowing sponge, and will often answer the

purpose equally well.

When all these methods prove unsuccessful, there remains one thore, which is to make the patient vomit; but this can scarcely be of any service, unless when such obstructing bodies are simply engaged in, and not hooked or stuck in the sides of the gullet, as in this case vomiting might sometimes occasion further mischies. If the patient can swallow, vomiting may be excited by taking half a dram or two scruples of ipecacuanha in powder made into a draught. If he is not able to swallow, an attempt may be made to excite vomiting, by tickling his throat with a feather, and, it that should not succeed, a clyster of tobacco may be administered. It is made by boiling an ounce of tobacco in a sufficient quantity of water; this has often been sound to succeed, when other attempts to excite vomiting had failed.

When the obstructing body is of such a nature that it may with safety be pushed downwards, this may be attempted by means of a wax-candle oiled, and a little heated, so as to make it slexifle; or a piece of whale-bone, wire, or flexible wood, with a sponge sastened

Should it be impossible to extract even those budies which it is dangerous to admit into the stomach, we must then prefer the least of two evils, and rather run the hazard of pushing them down, than suffer the patient to perish in a few minutes; and we ought to

feruple this resolution the less, as a great many instances have happened, where the swallowing of such turtful and indig sible sub-

stances have been followed by no disorder.

Whenever it is manifest that all endeavors either to extrest or push down the substance must prove inessectual, they should be discominued; because the inflamation occasioned by persisting in them might be as dangerous as the obstruction itself.—Some love died in consequence of the inflamation, even after the body which consequence the obstruction had been entirely removed.

While the means recommended above are making use of, the patient should often swallow, or, if he cannot, he should tree ently receive by injection through a crocked tube or gipe that may reach down to the gullet, some emollient liquor, as warm milk and water, barley water, or a decoction of mallows. It is clions of this kind not only soften and sooth the irritated parts, but, when thrown in with sorce, are often more successful in loosening the obstruction than all attempts with instruments.

When, after all our endeavors, we are obliged to leave the obfructing body in the part, the patient must be treated as if he had an inflamatory disease. He should be bled, kept upon a low diet, and have his whole neck surrounded with emollient possitices. The like treatment must also be used, if there be any reason to suspect an inflamation of the passages, though an obstructing body be re-

moved.

A proper degree of agitation has fometimes loofened the inhering body more effectually than influements. Thus a blow on the back has often forced up a fulfilance which fluck in the gullet; but this is fill more proper and efficucious when the fulfilance gets into the wind-pipe. In this case, vomiting and sneezing are likewise to be excited. Pins which stuck in the gullet, have been frequently discharged by riding on horseback or in a carriage.

When any indigestible substance has been forced down into the stomach, the patient should use a very study and smeath diet consisting chiefly of fruits and forinaceous substances, as puddings, petage, and soups. He should also avoid all hearing and irrit ting things, as wing, punch, pepper, and such like; and his drink should be

milk, and water, barley water, or whey.

When the gullet is so strongly and fully closed, that the patient can receive no food by the mouth, he much be nourished by clysters

of fonp, jelly, and the like.

When the patient is in danger of being immediately fuff-cated, and all hope of freeing the paffage is vanished, so that death seems at hand, if respiration be not restored; the operation of the minorary, or opening of the wind pipe, must be directly performed. As this operation is neither difficult to an expert surgeon, nor very

prinful to the patient, and is often the only method which can be taken to preferve life in these emergencies, we thought proper to mention it, though it should only be attempted by persons skilled in furgery.

#### OF DROWNED PERSONS.

When a person has remained above a quarter of an hour under water, there can be no confiderable hopes of his recovery. But as feveral circumstances may happen to have continued life, in such an unfortunate fituation, beyond the ordinary term, we should never too foon refign the unhappy object to his fate, but try every method for his relief, as there are many well attested proofs of the recovery of persons to life and health who had been taken out of the water apparently dead, and who remained a confiderable time without exhibiting any figns of life.

The first thing to be done, after the body is taken out of the water, is to convey it as foon as possible to some convenient place where the necessary operations for its recovery may be performed. In doing this, care must be taken not to bruise or injure the body by carrying it in any unnatural posture with the head downwards, or the like. If an adult body, it ought to be laid on a bed or on Araw, with the head a little railed, and carried on a cart or on men's shoulders, and kept in as natural and easy a posture as possible. A Imall body may be carried in the arms.

In attempting to recover persons apparently drowned, the principal invention to be purfued is to reflere the natural warmth, upon which all the vital functions depend; and to excite these furctions by the application of stimulants, not only to the skin, but likewise

to the lungs, intestines, &c.

Though cold was by no means the cause of the person's death, vet it will prove an effectual obstacle to his recovery. For this reason, after striping him of his wet clother, his body must be strongly rubed for a confiderable time with coarse linen cloths, as warm as they can be made; and as foon as a well heated bed can be got ready, he may be laid in it, and the rubing should be continued. Warm cloths ought likewife to be frequently applied to the stomach and bowels, and hot bricks, or bonies of warm water, to the folia of his fe, and to the palms of his hands.

Strong voiatile spirits should be trequently applied to the nose, and the spine of the back and pit of the stomach may be rubed with warm brancy or spirit of wine. The temples ought also to be chafed with volatile spirits, and stimulating powders, as that of

tobacco or marjoram, may be blown up the nostrils.

To renew the breathing, a strong person may blow his own breath into the patient's anoth with all the force he can, holding his nostrils at the same time. When it can be perceived by the rising of the chest or belly, that the lungs are filled with air, the person ought to desist from blowing, and should press the breast and belly so as to expel the air again; and this operation may be repeated for some time, alternately inslating and depressing the lungs so as

to imitate natural respiration.

If the lungs cannot be inflated in this manner, it may be attempted by blowing through one of the nostrils, and at the same time keeping the other close. Dr. Monro for this purpose recommends a wooden pipe stited at one end for filling the nostril, and at the other for being blown into by a person's mouth or for receiving the pipe of a pair of bellows, to be employed for the same purpose, if necessary.

When air cannot be forced into the chest by the mouth or nose, it may be necessary to make an opening in the wind pipe for this purpose. It is needless, however, to spend time in describing this operation, as it should not be attempted unless by persons skilled in

Jurgery.

To stimulate the intestines, the sume of tobacco may be thrown up in form of clyster. There are various pieces of apparatus contrived for this purpose, which may be used when at hand; but where these cannot be obtained, the business may be done by a common tobacco-pipe. The bowl of the pipe must be filled with tobacco well kindled, and, after the finall tube has been introduced into the fundament, the smoke may be forced up by blowing thro' a piece of paper full of holes wrapped round the mouth of the pipe, or by blowing through an empty pipe, the mouth of which is applied close to that of the other. This may also be done in the following manner: A common clyster-pipe with a bag mounted upon it, may be introduced into the fundament, and the mouth of the bag may be applied round the small end of a tobacco-pipe, in the bowl of which tobacco is to be kindled, and the smoke blown up, as directed above. Should it be found impracticable to throw up the Imoke of tobacco, clysters of warm water, with the addition of a little falt and some wine or spirits, may be frequently administered. This may be done by a common clyster-bag, and pipe; but as it ought to be thrown well up, a pretty large fyringe will answer the purpose better.

While these things are doing, some of the attendants ought to be preparing a warm hath, into which the person should be put, if the above endeavors prove ineffectual. Where there are no conveniencies for using the warm bath, the body may be covered with warm salt, sand, ashes, grains, or such like. Tissot mentions an instance of a girl who was restored to life, after she had been taken out of the water, swelled, bloated, and to all appearance dead, by laying

her naked body upon hot ashes, covering her with others equally hot, putting a bonet round her head, and a stocking round her neck stuffed with the same, and heaping coverings over all. After she had remained half an hour in this situation, her pulse returned, she recovered her speech, and cried out, I freeze, I freeze; a little cherry brandy was given her, and she remained buried as it were under the ashes for eight hours; afterwards she was taken out, without any other complaint except that of lassitude or weariness, which went off in a few days. The doctor mentions likewise an instance of a man who was restored to life, after he had remained six hours under water, by the heat of a dunghill.

Till the patient shews some signs of life, and is able to swallow, it would be useless and even dangerous to pour liquors into his mouth. His lips, however, and tongue, may be frequently wet with a feather dipt in warm brandy, or other strong spirits; and as soon as he has recovered the power of swallowing, a little warm wine, or some other cordial, ought every now and then to be ad-

ministered.

Some recommend a vomit after the patient is a little re-animated; but if he can be made to puke without the fickening draught, it will be more fafe: this may generally be done by tickling the throat and fauces with an ciled feather, or fome other foft fubstance, which will not injure the parts. Tiffot in this case recommends the oxymel of squills, a table-spoonful of which, diluted in water, may be given every quarter of an hour, till the patient has taken five or fix doses. Where that medicine is not at hand, a strong infusion of sage, camomile flowers, or carduus benedictus, sweetened with honey, or some warm water, with the addition of a little salt, may, he says, supply its place. The doctor does not intend that any of these things should be given in such quantities as to occasion vomiting. He thinks emetics in this situation are not expedient.

We are by no means to discontinue our affistance as soon as the patient discovers some tokens of life, since they sometimes expire after these first appearances of recovering. The warm and stimulating applications are still to be continued, and small quantities of some cordial siquor ought frequently to be administered. Lassly, though the person should be manifestly re-animated, here sometimes remain an oppression, a cough, and teverishness, which effectually constitute a disease. In this case it will be necessary to bleed the patient in the arm, and to cause him to drink plentifully of barley water, elder slower tea, or any other soft pectoral insusions.

Such perfons as have the misfortune to be deprived of the appearance of life, by a fall, a blow, suffocation, or the like, must be treated nearly in the same manner as those who have been for some

time under water. I once attended a patient who was so stunned by a sall from a horse, that for about six hours scarcely exhibited any signs of life; yet this man, by being bled, and proper methods taken to keep up the vital warmth, recovered: and in a few days was perfectly well. Dr. Alexander gives an instance of the same purpose, in the Edinburgh Physical and Literary Essays, of a men who was to all appearance killed by a blow on the breast, but recovered upon being immersed for some time in warm water.—These and other instances of a similar nature, which might be adduced, amount to a full proof of the sact, that many of those unhappy persons who lose their lives by falls, blows, and other accidents, might be saved by the use of proper means duly persisted in.

#### OF NOXIOUS VAPORS.

Air may be many ways rendered noxious, or even destructive to animals. This may either happen from its vivifying principle being destroyed, or from subtle exhalations with which it is impregnated. Thus air that has passed through burning such is neither capable of supporting fire nor the life of animals. Hence the danger of sleeping in close chambers with coal fires. Some indeed suppose the danger here proceeds from the sulphurous oil contained in the coal, which is set at liberty and diffused all over the chamber; while others imagine it is owing to the air of the room being charged with phlogiston. Be this as it may, it is a fituation carefully to be avoided. Indeed, it is dangerous to sleep in a small apartment with a fire of any kind. I lately saw four persons who had been suffocated by sleeping in an apartment where a small fire of coal had been left burning.

The vapor which exhales from wine, cyder, beer, or other liquors, in the state of fermentation, contains something poisonous, which kills in the same manner as the vapors of coal. Hence there is always danger in going into cellars where a large quantity of these liquors is in a state of fer mentation, especially if they have been close shut up for some time. There have been many instances of persons struck dead on entering such places, and of others who

have with difficulty escaped.

When subterraneous caves, that have been very long shut, are opened, or when deep wells are cleaned, which have not been emptied for several years, the vapors arising from them produce the same effects as those mentioned above. For this reason, no person ought to venture into a well, pit, cellar, or any place that is damp, and has been long shut up, till the air has been sufficiently purified by burning gunpowder in it. It is easy to know, as has been observed in a former part of this work, when the air of such places is unwholesome, by letting down a lighted candle, throwing in burn-

ing fuel, or the like. If these continue to burn, people may safely venture in; but where they are suddenly extinguished, no one ought

to enter till the air has been first purified by fire.

The offensive smell of lamps and of candles, especially when their startes are extinguished, operate like other vapors, though with less violence, and less suddenly. There have, however, been inflances of people killed by the sumes of lamps which had been extinguished in a close chamber, and persons of weak delicate breasts generally find themselves quickly oppressed in appartments illuminated with many candles.

Such as are fertible of their danger in these situations, and retreat seasonably from it, are generally relieved as soon as they get into the open air; or, if they have any remaining uneasiness, a little water and vinegar, or lemonade, drank hot, affords them relief.—But when they are so far possened as to have lost their feeling and understanding, the following means must be used for their reco-

very: .

The patient should be exposed to a very pure, fresh, and open air; and volatile salts, or other stimulating substances, held to his nose. He should next be bled in the arm, or, if that does not succeed, in the nec. His legs ought to be put into warm water, and well rubed. As soon as he can swallow, some lemonade, or water and vinegar, with the addition of a little nitre, may be given him.

Nor are sharp clysters by any means to be neglected; these may be made by adding to the common olyster, syrup of buckthorn and tincture of senna, of each two ounces; or, in their stead, half an ounce of Venice turpentine dissolved in the yolk of an egg. Should these things not be at hand, two or three large spoonfuls of common salt may be put into the clyster. The same means, if necessary, which were recommended in the former part of this chapter, may be used to restore the circulation, warmth, &c.

Mr. Toffach, furgeon, at Alloa, relates the cafe of a man suffocated by the steam of burning coal, where he recovered by blowing his breath into the patient's mouth, bleeding him in the arm, and causing him to be well rubed and tossed about. And Dr. Frewen, of Sussex, mentions the case of a young man who was stupisfed by the sinoke of sea-coal, but was recovered by being plunged into cold

water, and afterwards laid in a warm bed.

The practice of plunging persons sufficiently noxious vapors, in cold water, would seem to be supported by the common experiment of sufficiently dogs in the Grotto del Cani, and afterwards recovering them, by throwing them into the neighboring lake.

#### EFFECTS OF EXTREME COLD.

When cold is extremely severe, and a person is exposed to it for a long time, it proves mortal, in consequence of its stoping the circulation in the extremities, and forcing 100 great a proportion of blood towards the brain; so that the patient dies of a kind of apoplexy, preceded by great sleepiness. The traveller, in this situation, who finds himself begin to grow drow sy, should redouble his efforts to extricate himself from the imminent danger he is exposed to.—This sleep, which he might consider as some alleviation of his sufferings, would, if indulged, prove his last.

Such violent effects of cold are happily not very common in this country; it frequently happens, however, that the hands or feet of travellers are fo benumbed or frozen, as to be in danger of a mortification, if proper means are not used to prevent it. The chief danger in this situation arises from the sudden application of heat.—It is very common, when the hands or feet are pinched with cold, to hold them to the fire; yet reason and observation shew, that this is

a most dangerous and imprudent practice.

Every peafant knows, if frozen meat, fruits, or roots of any kind, be brought near the fire, or put into warm water, they will be destroyed, by rottenness, or a kind of mortification; and that the only way to recover them, is to immerse them for some time in very cold water. The same observation holds with regard to animals in this condition.

When the hands or feet are greatly benumbed with cold, they ought either to be immerfed in cold water, or rubed with fnew, till they recover their natural warmth and fenfibility; after which, the perfon may be removed into an apartment a little warmer, and may drink fome cups of tea, or an infusion of elder flowers sweetened with honey. Every person must have observed, when his hands were even but slightly affected with cold, that the best way to warm them, was by washing them in cold water, and continuing to rub them well for some time.

When a person has been so long exposed to the cold, that all appearances of life are gone, it will be necessary to rub him all over with snow or cold water; or, what will answer better, if it can be obtained, to immerse him in a bath of the coldest water. There is the greatest encouragement to persist in the use of these means, as we are assured that persons who had remained in the snow, or had been exposed to the freezing air, during sive or six successive days, and who had discovered no signs of life for several hours, have nevertheless been revived.

I have always thought, that the whitloes, kibes, chilhlains, and other inflamations of the extremities, which are fo common.

among the pealants in the cold feason, were chicky occasioned by their sudden transitions from cold to heat. After they have been exposed to an extreme degree of cold, they immediately apply their hands and feet to the fire, or, if they have occasion, plunge them into warm water, by which mean, if a mortification does not happen, an inflamation seldom fails to ensue. Most of the ill consequences from this quarter might be easily avoided, by only observing the precautions mentioned above.

EFFECTS OF EXTREME HEAT.

The effects of extreme heat, though not so common in this country, are no less satal, and much more sudden than those of cold. In hot countries, people frequently drop down dead in the streets, exhausted with heat and satigue. In this case, if any warm cordial can be poured into the mouth, it ought to be done. If this cannot be effected, they may be thrown up in form of a clyster. Volatile spirits, and other things of a stimulating nature, may be applied to the skin, which should be rubed with coarse cloths, whiped with nettles, or other stimulating things. Some of the ancient physicians are said to have restored to life persons apparently dead, by beating them with rods.

#### C H A P. LIV.

# OF FAINTING FITS, AND OTHER CASES WHICH REQUIRE IMMEDIATE ASSISTANCE.

TRONG and healthy persons, who abound with blood, are often seized with sudden fainting fits, after violent exercise, drinking freely of warm or strong liquors, exposure to great hear, intense application to study, or the like.

In such cases, the patient should be made to smell to some vinegar. His temples, forchead, and wrists, ought at the same time to be bathed with vinegar mixed to an equal quantity of warm water, and two or three spoonfuls of vinegar, with sour or five times as much

water, may, if he can swallow, be poured into his mouth.

If the fainting prove obtlinate, or degenerates into a fyncope, that is, an abolition of feeling and understanding, the patient must be bled. After the bleeding, a clyster will be proper, and then a cup or two of an infusion of any mild vegetable, with the addition of a little sugar and vinegar.

When twoonings, which arife from this cause, occur frequently in the same person, he should, in order to escape them, confine himself to a light diet, confishing chiefly of bread, fruits, and other vegetables. His driek ought to be water, or fine beer, and be that I sleep but moderately, and take one hexercise.

But fainting fits proceed much oftener from a defect them an excess of blood. Hence they are very ready to happen after great evacuations of any kind, abilinate watching, want or appetite, or fuch like. In these an almost directly opposite course to that mea-

tioned above must be pursued.

The patient thould be laid in bed, with his head low, and being covered, thould have his legs, thighs, arms, and his whole body rubed through with hot flannels. Hongary water, volatile falts, or firong fmelling herbs, as rue, mint, or rofemary, may be held to his note. His mouth may be wet with a little rum or brandy: and, if he can fwallow, fome hot wine, mixed with fugar and cinnamon, which is an excellent cordial, may be poured into his mouth. A compress of flannel dipt in hot wine or brandy must be applied to the pit of his stomach, and warm bricks, or bottles filled with hot water laid to the feet.

As foon as the patient is recovered a little, he fliculd take some strong soup or broth, or a little bread or biskuit soaked in hot spiced wine. To prevent the return of the fits, he ought to take often, but in small quantities, some light yet strongthening nourishment, as panado made with soup instead of water, new-laid eggs lightly

poached, chocolate, light roast meats, jellies, and such like.

Those tainting firs, which are the effect of bleeding, or of the violent operation of purges, belong to this class. Such as happen after artificial bleeding, are foldent dangerous, generally terminating as from as the parient is laid upon the bed; indeed perfens subject to this kind, should alway, be bled lying, in order to prevent it.—Should the tainting, however, continue longer than afford, volatile spirits may be held to the note, and rubed on the temples, &c.

When faining is the effect of too flrong or actid purges or vomits, the patient must be treated in all respects as if he had taken poilon. He should be made to drink plentitully of milk, warm water, and oil, barley-water, or such like; emollient clysters will he vise be proper, and the patien's strength should afterwards be recruited, by giving him generous cordials, and anodyne medicines.

Faintings are often occasioned by indigestion. This may either proceed from the quantity or quality of the food. When the former of these is the cause, the cure will be best performed by vo-

miting, which may be promoted by causing the patient to drink a weak infusion of camomile-flowers, carduus benedictus, or the like. When the disorder proceeds from the nature of the food, the patient, as in the case of weakness, must be revived by strong fmells, &c. after which he should be made to swallow a large quantity of light warm fluid, which may ferve to drown, as it were. the offending matter, to soften its acrimony, and either to effect a discharge of it by vomiting, or force it down into the intestines.

Even disagreeable smells will sometimes occasion swoonings. especially in people of weak nerves. When this happens, the patient should be carried into the open air, have stimulating things held to his nofe, and those substances which are disagreeable to him ought immediately to be removed. But we have already taken notice of swoonings which arise from nervous disorders, and shall

therefore fay no more upon that head.

Fainting fits often happen in the progress of diseases. In the beginning of putrid diseases they generally denote an oppression at the stomach, or a mass of corrupted humours, and they cease after evacuations either by vomit or stool. When they occur at the beginning of malignant fevers, they indicate great danger. In each of these cases, vinegar used both externally and internally is the best remedy during the paroxysm, and plenty of lemon-juice and water after it. Swoonings which happen in diseases accompanied with great evacuations, must be treated like those which are owing to weakness, and the evacuations ought to be restrained. When they happen towards the end of a violent fit of the intermitting fever, or that of each exacerbation of a continual fever, the patient

must be supported by small draughts of wine and water. Delicate and hysteric women are very liable to swooning or fainting fits after delivery. These might be often prevented by generous cordials, and the admission of fresh air. When they are occasioned by excessive flooding, it ought by all means to be restrained. They are generally the effect of mere weakness or exhaustation. Dr. Engleman relates the case of a woman in child bed, who, after being happily delivered, suddenly fainted, and lay upward of a quarter of an hour apparently dead. A physician was sent for ; her own maid, in the mean while, being out of patience at his delay, attempted to affift her herfelf, and extending herfelf upon her mistress, applied her mouth to her's, blew in as much breath as she possibly could, and in a very short time the exhausted woman awakened as out of a profound sleep; when proper things being given her, she soon recovered.

The maid being asked how she came to think of this expedient, faid the had feen it practifed at Altenburgh, by midwives, upon

children, with the happiest effect.

We mention this case chiefly that other midwives may be induced to follow so laudable an example. Many children are born without any signs of life, and others expire soon after the birth, who might,

without all doubt, by proper care be restored to life.

From whatever cause fainting sits proceed, fresh air is always of the greatest importance to the patient. By not attending to this cincumstance, people often kill their friends while they are endeavouring to save them. Alarmed at the patient's situation, they call in a crowd of people to his assistance, or perhaps to witness his exit, whose breathing exhausts the air, and encreases the danger. There is not the least doubt but this practice, which is very common among the lower fort of people, often proves satal, especially to the delicate, and such persons as fall into fainting sits from mere exhaustation, or the violence of some disease. No more persons ought ever to be admitted into the room where a patient lies in a swoon, than are absolutely necessary for his assistance, and the windows of the apartment should always be opened, at least as far as to admit a stream of fresh air.

Perfors subject to frequent swoonings, or fainting fits, should neglect no means to remove the cause of them, as their consequences are always injurious to the constitution. Every fainting fit leaves the person in dejection and weakness: the secretions are thereby suspended, the humours disposed to stagnation, coagulations and obstructions are formed, and if the motion of the blood be totally intercepted, or very considerably checked, polytuses are sometimes formed in the heart or larger vessels. The only kind of swoonings not to be dreaded are those which sometimes mark the criss in severs; yet even these ought, as soon as possible, to be

removed.

#### OF INTOXICATION.

The effects of intoxication are often fatal. No kind of poison kills more certainly than an over dose of ardent spirits. Sometimes by destroying the nervous energy, they put an end to life at once; but in general their effects are more flow, and in many respects similar to those of opium. Other kinds of intoxicating liquors may prove fatal when taken to excess, as well as ardent spirits; but they may generally be discharged by vomiting, which ought always to be excited when the stomach is overcharged with liquor.

More of those unhappy persons, who die intoxicated, lose their lives from an inability to conduct themselves, than from the destructive quality of the liquor. Unable to walk, they tumble down, and lie in some aukward posture, which obstructs the circulation or breathing, and often continue in this situation till they die. No drunken person should be left by himself, till his clothes have been

loosened, and his body laid in such a posture as is most favourable for continuing the vital motions, discharging the contents of the stomach, &c. The best posture for discharging the contents of the stomach, is to lay the person upon his belly; when asseep he may be laid on his side, with his head a little raised, and particular care must be taken that his neck be no way bent, twisted, or have any

thing too tight about it.

The excessive degree of thirst occasioned by drinking strong liquors, often induces people to quench it by taking what is hurtful. I have known fatal consequences even from drinking freely of milk after a debauch of wine or sour punch; these acid liquors, together with the heat of the stomach, having coagulated the milk in such a manner that it could never be digested. The safest drink after a debauch is water with a toast, tea, insusions of balm, sage, barley water, and such like. If the person wants a vomit, he may drink a weak insusion of camomile slowers, or lukewarm water and oil; but in this condition vomiting may generally be excited by only tickling the throat with the singer or a feather.

Instead of giving a detail of all the different symptoms of intoxication which indicate danger, and proposing a general plan of treatment for persons in this situation, I shall briefly relate the history of a case which lately fell under my own observation, wherein most of those symptoms usually reckoned dangerous concurred; and

where the treatment was successful.

A young man, about fifteen years of age, had, for a hire, drank ten glaffes of strong brandy. He soon after sell fast assep, and continued in that situation for several hours, till at length his uneasy manner of breathing, the coldness of the extremities, and other threatning symptoms, alarmed his friends, and made them send for me. I sound him still sleeping, his countenance gastly, and his skin covered with cold clammy sweat. Almost the only signs of life remaining were, a deep laborious breathing, and a convulsive

motion or agitation of his bowels.

I tried to rouse him, but in vain, by pinching, shaking, applying volatile spirits, and other stimulating things to his nose, &c. A few onness of blood were likewise taken from his arm, and a mixture of vinegar and water was poured into his month; but, as he could not swallow, very little of this got into his stomach.—None of these things having the least essection, and the danger seeming to encrease, I ordered his legs to be put into warm water, and a sharp clyster immediately to be administered. This gave him a stool, and was the first thing that relieved him. It was afterwards repeated with the same happy essect, and seemed to be the chief cause of his recovery. He then began to show some signs of life, tank daink when it was offered him, and came gradually to his

fenses. He continued, however, for several days weak and severish, and complained much of a foreness in his bowels, which gradually went off, by means of a stender diet, and cool mucilagin-

ous liquors.

This young man would probably have been suffered to die, without any assistance being called, had not a neighbour, a few days before, who had been advised to drink a bottle of spirits to cure him of an ague, expired under very similar circumstances.

OF SUFFOCATION AND STRANGLING.

These may sometimes proceed from an infraction of the lungs, produced by viscid clammy humours, or a spasmodic affection of the nerves of that organ. Persons who seel grossly, and abound in rich blood, are very liable to suffocating fits from the former of these causes. Such ought as soon as they are attacked, to be bled, to receive an emollient clyster, and to take frequently a cup of diluting liquor, with a little nitre in it. They should likewise receive the steam of hot vinegar into their lungs by breathing.

Nervous and asthmatic persons are most subject to spalmodic affections of the lungs. In this case the patient's legs should be immersed in warm water, and the steams of vinegar applied as above. Warm diluting liquors should likewise be drank; to a cup of which, a tea-spoonful of the parygoric elixir may occasionally be added. Burnt paper, feathers, or leather, may be held to the pa-

tient's nofe, and fresh air should be freely admitted to him.

Infants are often suffocated by the carelessness or inattention of their nurses. An infant when in bed should always be laid so that it cannot tumble down with its head under the bed clothes; and when in a cradle, its face ought never to be covered. A small degree of attention to these two simple rules would save the lives of many infants, and prevent others from being rendered weak and sickly all their lives by the injuries done—their lungs.

Instead of laying down a plan for a recovery of infants who are sufficiently, or overlaid, as it is usually their nurses, I shall give the history of a case related by Monsieur Janin, of the Royal College of surgery at Paris, as it was attended with success, and contains almost every thing that can be done on such occa-

fions.

\* These accidents are not always the effects of carelesses. I have known an infant over-laid by its mather being seized in the night with an hysteric sit. This ought to serve as a caution against employing hysteric runner as nurses: and should likewise, teach such women never to lay an infant in the same bed with themselves, but in a small adjacent one.

A nurse having had the misfortune to over-lay a child, he was called in, and found the infant without any figns of life; no pulsation in the arteries, no respiration, the face livid, and the eyes open, dull, and tarnished, the nose full of snivel, the mouth gaping, in short it was almost cold. Whilst some linen cloths and a parcel of ashes were warming, he had the body unswathed, and laid him in a warm bed and on the right fide. He then was rubbed all over with fine linen, for fear of fretting his tender and delicate ikin. As soon as the ashes had received their due degree of hear, Mr. Janin buried him in them, except his face, placed him on the fide opposite to that on which he had been at first laid, and covered him with a blanket. He had a bottle of eua de luce in his pocket, which he presented to his nose from time to time; and between whiles some puffs of tobacco were blown up his nostrils; to these succeeded the blowing into his mouth, and squeezing tight his nose. Animal heat began thus to be excited gradually; the pulfations of the temporal artery were foon felt, the breathing became more frequent and free, and the eyes closed and opened alternately. At length the child fetched fome cries, expressive of his want of the breast, which being applied to his mouth, he catched at it with avidity, and fucked as if nothing had happened to him. Though the pulsations of the arteries were by this time very well re-cstablished, and it was hot weather, yet Mr. Janin thought it adviseable to leave his little patient three quarters of an hour longer under the afhes. He was afterwards taken out, cleaned and dreffed as usual; to which a gentle fleep succeeded, and he continued perfectly well.

Mr. Janin mentions likewise an example of a young man, who had hanged himself through despair, to whom he administered help

as effectually as in the preceding case.

Mr. Glover, surgeon in Doctors Commons, London, relates the case of a person who was restored to life, after twenty-nine minutes

hanging, and continued in good health for many years after.

The principal means used to restore this man to life were, opening the temporal artery and the external jugular; subbing the back, mouth, and neck, with a quantity of volatile spirits and oil; administering the tobacco clyster by means of lighted pipes, and strong frictions of the legs and arms. This course had been continued for about four hours, when an incision was made into the wind-pipe, and air blown strongly through a canal into the lungs. About twenty minutes after this, the blood at the artery began to run down the sace, and a slow pulse was just perceptible at the wrist. The frictions were continued for some time longer; his pulse became more frequent, and his mouth and nose being irritated with spirit of sal ammeniac, he opened his eyes. Warm cordials were

then administered to him, and in two days he was so well as to be

able to walk eight miles.

These cases are sufficient to shew what may be done for the recovery of those unhappy persons who strangle themselves in a fit of despair.

### OF PERSONS WHO EXPIRE IN CONVULSION FITS.

Convultion fits often conflitture the last scene of acute or chronic attorders. When this is the case, there can remain but small hopes of the patient's recovery after expiring in a fit. But when a person appears to be in perfect health, is studdenly seized with a convenion fit, and seems to expire, some attempts ought always to be made to restore him to life. Infants are most liable to convulsions, and are often carried off very suddenly by one or more fits about the time of teething. There are many well authenticated accounts of infants having been restored to life, after they had to all appearance expired in convulsions; but we shall only relate the following in-thance, mentioned by Dr. Johnston, in his pamphlet on the practica-

bility of recovering perfons vifibly dead:

In the parish of St. Clemens, in Colchester, a child of fix months old, lying upon its mother's lap, having had the breaft, was feized with a strong convulsion fit, which lasted so long, and ended with so total a privation of motion in the body, lungs, and pulse, that it was deemed absolutely dead. It was accordingly stripped, laid out, the passing bell ordered to be tolled, and a coffin to be made; but a neighbouring gentlewoman who used to admire the child, hearing or its further death, haftened to the house, and, upon examining the child, found it not cold, its joints limber, and fancied that a glats the held to its mouth and note was a little damped with the breath; upon which she took the child in her lap, fat down before the fire, rabbed it, and kept it in gentle agitation. In a quarter of an hour the felt the heart begin to beat faintly; the then put a little of the mother's milk into its mouth, continued to rub its palms and foles, round the child begin to move, and the milk was for illowed, and in another quarter of an hour, the had the latisfection of restoring to its diffeonfolate mother the bake quite recovered, cager to lay hold of the breast, and able to fuck again. The child throve, had no more r , is grown up, and at prefent alive.

These means, which are certainly in the power of every performance from the restore to life an infant to all appearance dead and who, in all probability, but for the use of these simple endervants, would have remained so. There are, however, many other things which might be done in case the above should not succeed, as rubbing the body with strong so its, evering it with worse office or falt, viowing or into the lesse, throwing up to save

flimulating clysters, or the fracke of tobacco, into the intestines, and such like.

When children are dead-born, or expire foon after the birth, the fame means ought to be used for their recovery, as if they had expired in circumstances similar to those mentioned above.

These directions may likewise be extended to adults, attention being always paid to the age and other circumstances of the

patient.

The foregoing case and observations afford sufficient preof of the success which may attend the endeavors of persons totally ignorant of medicine, in assisting those who are suddenly deprived of life by any accident or disease. Many sacts of a similar nature might be adduced, were it necessary; but these, it is hoped, will be sufficient to call up the attention of the public, and to excite the humane and benevolent to exert their utmost endeavors for the preservation of their tellow men.

The Society for the recovery of drowned perfons, instituted at Amflerdam, in the year 1767, had the satisfaction to find that not sewer than 150 persons, in the space of four years, had been saved by the means pointed ont by them, many of whom owed their preservation to peasents, and people of no medical knowledge. But the means used with so much essicacy in recovering drowned persons are, with equal success, applicable to a number of cases where the powers of life seem in reality to be only suspended, and to remain capable of renewing all their sunctions, on being put into motion again. It is shocking to reslect, that for want of this consideration, many persons have been committed to the grave, in whom the principles of life might have been revived.

The cases wherein such endeavors are most likely to be attended with success, are all those called sunden deaths from an invisible cause, as apoplexies, hysterics, faintings, and many other disorders, wherein persons in a moment sink down and expire. The various casualties in which they may be tried, are, suffocations, from the sulphureous damps of mines, coal-pits. &c. the unwholesome air of long unopened wells or caverns; the noxious vapours arising from fermenting liquors; the steams of burning charcoal; sulphureous

mineral acids; arfenical effluvia, &c.

The various accidents of drowning, strangling, and apparent deaths, by blows, falls, hunger, cold, &c. likewife furnish apportunities of trying such endeavors. Those perhaps who to appearance are killed by lightning, or by any violent agitation of the passions, as sear, joy, surprise, and such like, might also be frequently recovered by the use of proper means, as blowing strongly into their lungs, &c.

The means to be used for the recovery of persons studdenly deprived of life, are nearly the same in all cases; they are practicable by every one who happens to be present at the accident, and require no great expence, and less skill. The great aim is to restore the warmth and vital motions. This may in general be attempted by means of heat, frictions, bleeding, blowing air into the lungs, administering clysters and generous cordials.—These must be varied according to circumstances. Common sense, and the situation of the patient, will suggest the proper manner of conducting them.—Above all, we would recommend perseverance. People ought never to despair, on account of discouraging circumstances, or to leave off their endeavors as long as there is the least hope of success. Where much good and no hurt can be done, no one ought to grudge his labour.

It were greatly to be wished, that an institution similar to that of Amsterdam, was established, upon a more extensive plan, in Great-Britain; and that a reward was allowed to every one who should be instrumental in restoring to life a person seemingly dead.\* Men will do much for fame, but still more for money. Should no profit, however, be annexed to those benevolent offices, the heart-felt pleasure which a good man must enjoy, on restecting that he has been the happy instrument of saving one of his sellow-creatures from an untimely grave, is itself a sufficient reward.

#### C H A P. LV.

# CAUTIONS CONCERNING COLD BATHING, AND DRINKING THE MINERAL WATERS.

S it is now fashionable for persons of all ranks to plunge into the sea, and drink the mineral waters, I was desirous of rendering this work still more extensively useful, by the addition of

\* The author is happy to observe, that, since the sirst publication of this work, several societies have been instituted in Britain, with the same benevolent intention as that of Amsterdam, and that their endeavers have proved no less successful. He is likewise happy to observe, that premiums have been awarded to those who have been active in their endeavers to restore to life persons who had been drowned, or suddenly deprived of life by any accident. How much is this superior to the superstitious institution, which allows any man a premium who brings a dead person out of the water, so that he may receive Christian burial; but allows nothing to the person who brings him out alive, or who recovers him after he has been to all other areas a dead.

ome practical remarks on these active and useful medicines. Finding it impossible to bring these observations within so narrow a compass as not to swell the book, already too large, into an enorthous size, I resolved to confine myself to a few hints or cautions; which may be of service to persons who bathe, or drink the mineral waters, without being able to put themselves under the care of a physician.

No part of the practice of medicine is of greater importance, or merits more the attention of the physician, as many lives are lost, and numbers ruin their health, by cold bathing, and an imprudent use of the mineral waters. On some suture occasion I may probably resume this subject, as I know not any work that contains a sufficient number of practical observations to regulate the patient's conduct in the use of these active and important medicines.

We have, indeed many books on the mineral waters, and fome of them are written with much ingenuity; but they are chiefly employed in afcertaining the contents of the waters by chymical analysis. This, no doubt, has its use; but it is by no means of such importance as some may imagine. A man may know the chymical analysis of all the articles in the materia medica, without being able properly to apply any one of them in the cure of diseases. One page of practical observations, is worth a whole volume of chymical analysis. But where are such observations to be met with? Few physicians are in a situation to make them, and sewer still are qualified for such a task. It can only be accomplished by practitioners who reside at the sountains, and who, possessing minds superior to local prejudices, are capable of distinguishing diseases with accuracy, and of forming a found judgment respecting the genuine effects of medicines.

Without a proper discrimination with regard to the disease, and the constitution of the patient, the most powerful medicine is more likely to do harm than good. Every one knows that the same physician who, by cold bathing cured Augustus, by an imprudent use of the same medicine killed his heir. This induced the Roman senate to make laws for regulating the baths, and preventing the numerous evils which arose from an imprudent and promiseuous use of those elegant and fashionable pieces of luxury. But as no such laws exist in this country, every one does that which is right in his own eyes, and

of courfe, many must do wrong.

People are apt to imagine that the simple element of water can do no hurt, and that they may plunge into it at any time with impunity. In this, however, they are much mistaken. I have known apoplexies occasioned by going into the cold bath, fevers excited by staying too long in it, and other maladies so much aggravated by its continued use, that they could never be whosly gradiented. Nor are examples

wanting, either in ancient or modern times, of the baneful confer quences which have arisen also from an injudicious application of the warm bath; but as warm baths are not so common in this country, and are seldom used but under the direction of a physician, I

shall not enlarge on that part of the subject.

Immersion in cold water, is a custom which lays claim to the most remote antiquity: indeed, it must have been coeval with man himself. The necessity of water for the purpose of cleanliness, and the pleasure arising from its application to the body in hot countries, must very early have recommended it to the human species. Even the example of other animals was sufficient to give the hint to By instinct many of them are led to apply cold water in this manner; and some, when deprived of its use, have been known to languish, and even to die. But whether the practice of cold bathing arose from necessity, reasoning, or imitation, is an enquiry of no importance; our business is to point out the advantages which may be derived from it, and to guard people against an improper use of it.

The cold bath recommends itself in a variety of cases, and is peculiarly beneficial to the inhabitants of populous cities, who indulge in idleness, and lead sedentary lives. In persons of this defcription the actions of the folids are always too weak, which induces a languid circulation, a crude, indigested mass of humours, and obstructions in the capillary vessels and glandular system. Cold water, from its gravity as well as its tonic power, is well calculated either to obviate or remove these symptoms. It accelerates the motion of the blood, promotes the different fecretions, and gives permanent vigour to the folids. But all these important purposes will be more effentially answered by the application of jult water. This ought not only to be preferred on account of its superior gravity, but likewise for its greater power of stimulating the skin, which promotes the perspiration, and prevents the patient from catching cold.

It is necessary, however, to observe, that cold bathing is more likely to prevent, than to remove obstructions of the glandular or lymphatic fystem. Indeed, when these have arrived at a certain pitch, they are not to be removed by any means. In this case, the cold bath will only aggravate the fymptoms, and hurry the unhappy patient into an untimely grave. It is therefore of the utmost importance, previous to the patient's entering upon the use of the cold bath, to determine whether or not he labours under any obstinate obstructions of the lungs or other vifcera: and where this is the case.

cold bathing ought strictly to be prohibited.\*

<sup>\*</sup> The late celebrated Dr. Smollet has indeed faid, that if he were perfunded he had an ulcer in the lungs, he would jump into the cold bath.

In what is called a plethoric state, or too great a sulness of the body, it is likewise dangerous to use the cold bath, without due preparation. In this case there is great danger of bursting a blood vessel, or occasioning an inflammation of the brain, or some of the viscera. This precaution is the more necessary to citizens, as most of them live full, and are of a gross habit. Yet, what is very remarkable, these people resort in crowds, every season, to the seaside, and plunge in the water, without the least consideration. No doubt they often escape with impunity, but does this give a fanction to the practice? Persons of this description ought by no means to bathe, unless the body has been previously prepared by suitable evacuations.

Another class of patients, who stand peculiarly in need of the bracing qualities of cold water, is the nervous. This includes a great number of the male, and almost all the female inhabitants of great cities. Yet even those persons ought to be cautious in using the cold bath. Nervous people have often weak bowels, and may, as well as others, be subject to congestions and obstructions of the viscera; and in this case they will not be able to bear the effects of the cold water. For them, therefore, and indeed for all delicate people, the best plan would be to accustom themselves to it by the most pleasing and gentle degrees. They ought to begin with the temperate bath, and gradually use it cooler, till at length the coldest proves quite agreeable. Nature revolts against all great transitions; and those who do violence to her dictates, have often cause to repent of their temerity.

Wherever cold bathing is practifed, there ought likewise to be tepid baths for the purposes mentioned above. Indeed it is the practice of some countries to throw cold water over the patient as soon as he comes out of the warm bath; but though this may not injure a Russian peasant, we dare not recommend it to the inhabitants of this country. The accient Greeks and Romans, we are told, when covered with sweat and dust, used to plunge into rivers, without receiving the smallest injury. Though they might often escape danger from this imprudent conduct, yet it was certainly contrary to found reason. I have known many robust men throw away their lives by such an attempt. We would not however advise patients

But here the Doctor evidently snews more courage than discretion, and that he was more a man of wit than a physician, every one will allow. A nervous asthma, or an athrophy, may be mistaken for a pulmonary consumption; yet, in the two former, the cold bath proves often beneficial, though I never knew it so in the latter. Indeed, all the philisical patients I ever saw, who had tried the cold bath, were evidently burk by it.

to go into the cold water when the body is chilly; as much exercise, at least, ought to be taken, as may excite a gentle glow all over the

body, but by no means fo as to overheat it.

To young people, and particularly to children, cold bathing is of the last importance. Their lax fibres renders its tonic powers peculiarly proper. It promotes their growth, increases their strength, and prevents a variety of diseases incident to childhood. Were infants early accustomed to the cold bath, it would seldom disagree with them; and we should see sewer instances of the scrophula, rickets, and other diseases, which prove stath to many, and make others miserable for life. Sometimes, indeed, these disorders render infants incapable of bearing the shock of cold water; but this is owing to their not having been early and regularly accustomed to it. It is, however, necessary here to caution young men against too frequent bathing; as I have known many stath consequences result from the daily practice of plunging into rivers, and continuing there too long.

The most proper times of the day for using the cold bath, is no doubt the morning, or at least before dinner; and the best mode, that of a quick immersion. As cold bathing has a constant tendency to propel the blood and other humours towards the head, it ought to be a rule to wet that part as soon as possible. By due attention to this circumstance, there is reason to believe that violent head-aches, and other complaints, which frequently proceed from cold bathing,

might be often prevented.

The cold bath, when too long continued in, not only occasions an excessive flux of humors towards the head, but chills the blood, cramps the nucles, relaxes the nerves, and wholly defeats the intention of bathing. Hence, by not adverting to this circumstance, expert swimmers are often injured, and sometimes even lose their lives. All the beneficial purposes of cold bathing are answered by one immersion at a time; and the patient ought to be rubbed dry the moment he comes out of the water, and should continue to take exercise for some time after.

When the cold bathing occasions chilness, loss of appetite, listlessacts, pain of the breast or bowels, a prostration of strength, or violent

h. ad-aches, it ought to be discontinued.

<sup>\*</sup>The celebrated physician, Galen, says, that immersion in cold eveter, is sit only for the young of lions and bears; and recommends warm tathing, as conducive to the growth and strength of infants. How gregically do the greatest men err, whenever they life sight of feets, and substitute reasoning in physic, in place of I servetim and experience!

Though these hints are by no means intended to point out all the cases where cold bathing may be hurtful, nor to illustrate its extensive utility as a medicine; yet it is hoped they may serve to guard people against some of those errors, into which, from mere mattention, they are apt to fall, and thereby not only endanger their own lives, but bring an excellent medicine into disrepute.

Of drinking the Mineral Waters.

The internal use of water, as a medicine, is no less an object of the physician's attention, than the external. Pure elementary water is indeed the most inosfensive of all liquors, and constitutes a principal part of the food of every adimal. But this element is often impregnated with substances of a very active and penetrating nature; and of such an insiduous quality, that, while they promote certain secretions, and even alleviate some disagreeable symptoms, they weaken the powers of life, undermine the constitution, and lay the foundation of worse diseases than those which they were employed to remove. Of this, every practitioner must have seen instances; and physicians of eminence have more than once declared, that they have known more diseases occasioned than removed by the use of mineral waters. This, doubtless, has proceeded from the abuse of these powerful medicines, which evinces the necessity of using them with caution.

By examining the contents of the mineral waters which are most used in this country, we shall be enabled to form an idea of the danger which may arise from an improper application of them, either externally or internally; though it is to the latter of these that the

present observations are chiefly confined.

The waters most in use for medical purposes in Britain, are these impregnated with salts, sulphur, iron, and mephiticair, either separately, or variously combined. Of these, the most powerful is the saline sulphureous waters of Harrow gate, or which I have had more occasion to observe the pernicious consequences, when improperly used, than of any other. To this, therefore, the following remarks will more immediately relate, though they will be found applied ble to all the purging waters in the kingdom, which are drong enough to merit attention.\*

<sup>\*</sup> The greatest class of mineral waters in this country, is the chetybeate. In many parts of Britain, these are to be found in almost every field; but those chiefly in use for medical purposes, are the purging chatybeates, as the waters of Scarborough, Chellenham, Thorp-Arch, Nevil-Holt, Ge. Of those which is not purge, the waters of Tunbridge shand in the Viglest repute. The saline purging waters, as those of Advan, I som, Kilburn, Ge. are also in very great escent; but the santains mild frequented is

The errors which so often defeat the intention of drinking the purgative mineral waters, and which so frequently prove injurious to the patient, proceed from the manner of using them, the quantity taken, the regimen pursued, or using them in cases where they are

not proper.

A very hurtful prejudice still prevails in this country, that all discases must be cured by medicines taken into the stomach, and that the more violently these medicines operate, they are the more likely to have the desired effect. This opinion has proved satal to thousands, and will, in all probability, destroy many more, before it can be wholly eradicated. Purging is often useful in acute diseases, and in chronical cases may pave the way for the operation of other medicines, but it will seldom perform a cure; and by exhausting the strength of the patient, will often leave him in a worse condition than found him. That this is frequently the case with regard to the more active mineral waters, every person conversant in these matters will readily allow.

Strong stimulants applied to the stomach and bowels for a length of time, must tend to weaken and destroy their energy; and what stimulants are more active than falt and sulphur, especially when these substances are intimately combined, and carried through the system by the penetrating medium of water? Those bowels must, be strong indeed, which can withstand the daily operations of such active principles for months together, and not be injured. This, however, is the plan pursued by most of those who drink the purging managed waters, and whose circumstances will permit them to con-

tinne long enough at those fashionable places of resort.

Many people imagine that every thing depends on the quantity of water taken, and that the more they drink, they will the fooner get well. This is an egregious error; for, while the unhappy patient thinks he is by this means eradicating his diforder, he is often, in fact, undermining the powers of life, and ruining his confliction. Indeed, nothing can do this fo effectually, as weakening the powers or eigeftion, by the improper application of firong fitmulants. The very chence of health depends on the digeflive organs performing their due functions, and the most todious maladies are all connected with indigestion.

Drinking the water in too great quantity, not only injures the bowels and occasions indigedion, but generally defeats the intention for which it is taken. The difeafes for the cure of which mineral waters are chicaly celebrated, are mostly of the chronic kind, and

the fick in this country, are thefe to which the minerals impart a certain active of heat, as Bath, Briftel, Buxton, Sc.

operation of alteratives, or fuch medicines as act by inducing a gradual change in the habit. This requires length of time, and never can be effected by medicines which run off by stool, and operate

chiefly on the first passages.

Those who wish for the cure of an obstinate malady from the mineral waters, ought to take them in such a manner as hardly to produce any effect whatever on the bowels. With this view a half pint glass may be drank at bed-time,\* and the same quantity an hour before breakfast, dinner, and supper. The dose, however, must vary according to circumstances. Even the quantity mentioned above, will purge some persons, while others will drink twice as much without being in the least moved by it. Its operation on the bowels is the only standard for using the water as an alterative. No more ought to be taken than barely to move the body: nor is it always necessary to carry it this length, provided the water goes off by the other emunctories, and not occasion a chilness, or flatulency in the stomach or bowels. When the water is intended to purge, the quantity mentioned above may be all taken before brezkfast.

I would not only caution patients who drink the purging mineral waters over night, to avoid heavy suppers, but also from eating heavy meals at any time. The stimulus of water, impregnated with salts, seems to create a salse appetite. I have seen a delicate person, after drinking the Harrowgate waters of a morning, eat a breakfast sufficient to have served two plowmen, devour a plentiful dinner of slesh and sish, and, to crown all, eat such a supper as might have satisfied a hungry porter. All this, indeed, the stomach seemed to crave; but this craving had better remain not quite satisfied, than that the stomach should be loaded with what exceeds its powers. To starve patients was never my plan; but I am clearly of opinion that, in the use of all the purging mineral waters, a light, and rather diluting diet, is the most proper; and that no person, during such a course, ought to eat to the full extent of what his appetite craves.

<sup>\*</sup> When I speak of drinking a glass of the water over night, I must beg leave to caution those who follow this plan, against eating heavy suppers. The late Dr. Daultry, of York, who was the first & at brought the Harrowgate waters into repute, used to advise his patient to drink a glass before they went to bed; the consequence of which was, that having eat a slesh supper, and the water operating in the night, they were often tormented with gripes, and obliged to call for medical

To premote the operation of mineral waters, and to carry them through the tystem, exercise is indispensibly necessary. This may be taken in any manner that is in all agreeable to the patient; but he ought never to carry it to excess. The best kinds of exercise, are those counciled with amusement. Every thing that tends to exhiberate the spirits, not only promotes the operation of the waters, but acts as a medicine. All who refort to the mineral waters, ought therefore to leave every care behind, to mix with the company, and to m ke themselves as cheerful and happy as possible.— From this conduct, assisted by the free and wholesome air of these rathonal le phases of refort, and also the regular and early hours which are usually kept, the patient often receives more benefit than then using the water's.

But the greatest errors in drinking the purging mineral waters, arise from their being used in cases where they are absolutely improper, and adverse to the nature of the disease. When people hear of a wonderful cure having been performed by some mineral water, they immediately conclude that it will cure every thing, and accordingly swallow it down, when they might as well take peison.—Putients ought to be well informed, before they begin to drink the more active kinds of mineral waters, of the propriety of the course, and should never perfect in using them, when they are found to

a gravate the diferder.

In all cases where purging is indicated, the saline mineral waters will be found to fulfil this intention better than any other medicine. Their operation, if taken in proper quantity, is generally mild; and they are neither found to initate the nerves, nor debilitate the

prient fo much as the other purgatives.

As a pure tive, these waters are chicky recommended in diseases of the first passages, accordinated with, or proceeding from inactivity of the stomach and bowels, acidity, indigestion, viriated bile, worm, putrid sordes, the piles, and jaundice. In most cases of this kind, they are the best medicines that can be administered. But when used with this view, it is sufficient to take them twice, or at most, three times a week, so as to move the body three or four times; and it will be proper to continue this course for some weeks.

But the operation of the more active mineral waters is not configuration the bowels. They often promote the discharge of unine, and not unfrequently increase the perspiration. This shows that they are capable of penetrating into every part of the body, and of stimmating the whole system. Hence arises their efficacy in removing the most obstination at all enforders, also actions of the glandular and involvation system. Under this class is comprehended the scrophula, or the solution indicate tumore, obstinglished the liver spleen, kill

neys, and mesenteric glands. When these great purposes are to be effected, the waters must be used in the gradual manner mentioned above, and persisted in for a length of time. It will be proper, however, now and then to discontinue their use for a few days.

The next great class of diseases where mineral waters are found to be beneficial, are those of the skin, as the itch, scab, tetters, ringworms, scaly eruptions, leprosies, blotches, sond ulcers, &c.— Though these may seem superficial, yet they are often the most obstinate which the physician has to encounter, and not unfrequently set his skill at desiance: but they will sometimes yield to the application of mineral waters for a sufficient length of time, and in most cases of this kind, these waters deserve a trial. The saline sulphureous waters, such as those of Mossat, in Scotland, and Harrowgate, in England, are the most likely to succeed in diseases of the skin; but for this purpose it will be necessary not only to drink the waters, but likewise to use them externally.

To enumerate more particularly the qualities of the different mineral waters, to specify those diseases in which they are respectively indicated, and to point out their proper modes of application, would be a useful, and by no means a disagreeable employment; but as the limits prescribed to these remarks will not allow me to treat the subject at more length, I shall conclude by observing, that whenever the mineral waters are found to exhaust the strength, depress the spirits, take away the appetite, excite severs, distend the

bowels, or occasion a cough, they ought to be discontinued.

\*\*\* These cautions having been printed and sold separately for the accommodation of those who had purchased the former editions of this book, has induced some persons to consider them as a Treatise on sea-bathing, and drinking the mineral waters; whereas, the author's sole intention was to furnish a few general hints to persons who frequent those fashionable places of resort, without putting themselves under the care of a physician. As he looks upon this subject, however, to be of the greatest importance to the sick, he pledges himself to treat it at more length on a future occasion.

# A P P E N D I X:

#### CONTAINING

A List of Simples, and of such Medical Preparations as ought to be kept in Readiness for private Practice:

The Method of preparing and compounding such Medicines as are recommended in the former Part of the Book, with the Addition of several others of a similar Nature:

Remarks on the Doses, Uses, and Manner of applying the different Preparations.

Medicamentorum varietas ignorantia filia est.

BACON.

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## INTRODUCTION.

GNORANCE and superstition have attributed extraordinary medical virtues to almost every production of nature. That such virtues were often imaginary, time and experience have sufficiently shewn. Physicians, however, from a veneration for antiquity, still retain in their lists of medicine, many things which owe their reputation entirely to the superstition and credulity of our ancestors.

The instruments of medicine will always be multiplied, in proportion to men's ignorance of the nature and cause of diseases: when these are sufficiently understood, the method of cure will be simple and obvious.

Ignorance of the real nature and permanent properties of those substances employed in the cure of diseases, is another reason why they have been so greatly multiplied. Physicians thought they could effect by a number of ingredients, what could not be done by any one of them. Hence arose those amazing farragoes which have so long disgraced the medical art, and which were esteemed powerful in proportion to the number of simples that entered their compositions.

The great variety of forms into which almost every article of medicine has been manufactured, affords another proof of the imperfection of the medical art. A drug which is perhaps most efficacious in the simplest form in which it can be administered, has been nevertheless served up in so many different shapes, that one would be induced to think the whole art of physic lay in exhibiting medicine under as many different modes as possible.

Different forms of medicine, no doubt, have their use; but they ought never to be wantonly increased. They are by no means so necessary as is generally imagined. A few grains of powdered rhubarb, jalap, or ipecacuanha, will actually perform all that can be done by the different preparations of these roots, and may also be exhibited in as safe and agreeable a manner. The same observation holds with regard to the Peruvian bark, and many other simples, of

which the preparations are very numerous.

Multiplying the ingredients of a medicine, not only renders it more expensive, but also less certain, both in its dose and operation. Nor is this all: the compound, when kept, is apt to spoil, or acquire qualities of a different nature. When a medicine is rendered more safe, efficacious, or agreeable, by the addition of another, they ought, no doubt, to be joined; in all other cases they are better kept asunder. The combination of medicines embarrasses the physician, and retards the progress of medical knowledge. It is impossible to ascertain the precise effect of any one medicine, as long as it is combined with others, either of a smilar or dissimilar nature.

In the exhibition of medicine, regard should not only be had to simplicity, but likewise to elegance. Patients seldom reap much benefit from things that are highly disagreeable to their senses. To taste or smell like a drug, is become a proverb; and to say truth, where is too much ground for it. Indeed no art can take away the disagreeable taste and slavour of some drugs, without entirely destroying their efficacy; it is possible, however, to render many medicines less disgustful, and others even agreeable; an object highly

deserving the attention of all who administer medicine.

The design of the following pages is to exhibit such a list of drugs and medicines as may be necessary for private practice. They are considerably more numerous indeed than those recommended in the former part of the book, but are still greatly within the number contained in the most reformed dispensatories. The same measurement is seldom exhibited under different forms; and where different medicines answer nearly the same intention, there is commonly to more than one of them retained. Multiplying forms of medicine for the same intention tends rather to be wilder than assist the

young practitioner, and the experienced physician can never be at

a loss to vary his prescriptions as occasion requires.

The chymical and other difficult preparations are for the most part omitted. All of them that are used by any private practitioner are not worth preparing. He will buy them much cheaper than he can make them. Great care however is necessary to obtain them genuine. They are often adulterated, and ought never to be purchased unless from persons of known veracity. Such of them as are in common use are inserted in the list of drugs and medicines.

Their proper doses, and manner of application, are mentioned in the practical part of the book, wherever they are prescribed.

Such articles of medicine as are to be found in the house or garden of almost every peasant, as barley, eggs, onions, &c. are likewise, for the most part, omitted. It is needless to swell a list of medicines with such things as can be obtained whenever they are

wanted, and which spoil by being kept.

The preparations made and fold by diffillers and confectioners are also generally left out. These people, by operating upon a larger plan, generally make things better, while it is in their power to afford them much cheaper, than they can be prepared by any private hand.

The quantity ordered of every medicine is as small as could well be prepared, both to prevent unnecessary expense, and that the medicine might not spoil by keeping. Almost every medicine suffices by being kept, and should be used as soon after it has been prepared as possible. Even simple drugs are apt to spoil, and should therefore be laid in small quantities; they either rot, are continued by infects, or evaporate so as to lose their peculiar taste or slavour, and other become quite insignificant.

In the preparation of incidences I have generally followed the most improved dispensatories; but have taken the liberty to differ from them wherever my own observations, or those of other practical writers, on whose judgment I could depend, fuggested an im-

provement

In feveral compositions, the ingredient on which the efficacy of the medicine principally depends, is increased, while the auxiliaries, which are generally ordered in such trisling quantities as to be of no importance, are left out, or only such of them retained as are necessary to give the medicine a proper confidence, or the like.

The colouring ingredients are likewise for the most part omitted. They increase the bulk and price of the medicine, without adding to its value. It would be well if they were never used at all. Medicines are often adulterated for take of a colour. Acrid and even poisonous substances are for this purpose, sometimes introduced

Ointment of Elder, for example, it is often mixed with verdegreafe, to give it a fine green colour, which entirely frustrates the intention of that mild ointment. Those who wish to obtain genuine medi-

cines, should pay no regard to their colour.

Some regard is likewise paid to expense. Such ingredients as greatly increase the price of any composition, without adding contiderably to its virtue, are generally either omitted, or somewhat less expensive substituted in their place. Medicines are by no means powerful in proportion to their price. The cheapest are often the best; besides, they are the least apt to be adulterated, and are always most readily obtained.

With regard to the method of compounding medicines, I have generally followed that which feemed to be the most simple and natural, mentioning the different steps of the process in the same order in which they ought to be taken, without paying an implicit regard

to the method of other dispensatories.

For many of the remarks concerning the preparations, &c. of medicines, I have been obliged to the author of the New Dispensatory. The other observations are either such as have occurred to myself in practice, or have been suggested in the course of reading, by authors whose names I am not able distinctly to recollect.

I have followed the alphabetical order, with regard to the simples and preparations. A more scientific method would have been agreeable to some persons, but less useful to the generality of readers. The different classes of medicine have no great dependance upon one another; and, where they have, it is hard to say which should stand first or last; no doubt the simple preparations ought to precede the more compound. But all the advantages arising from this method of arrangement, do not appear equal to that single one, of being able, on the first opening of the book, to find out any article, which, by the alphabetical order, is rendered quite easy.

The dose of every medicine is mentioned, whenever it appeared necessary. When this is omitted, it is to be understood that the medicine may be used at discretion. The dose mentioned is always for an adult, unless when the contrary is expressed. It is not an easy matter to proportion the doses of medicine exactly to the different ages, constitutions, &c. of patients; but, happily for mankind,

mathematical exactness here is by no means necessary.

Several attempts have been made to afcertain the proportional doses for the different ages and conflictations of patients; but, after all that can be faid upon this subject, a great deal must be left to the juil mont and skill of the person who administers the medicine.

The following general proportions may be observed, but they are by no means intended for exact rules. A patient between twenty and fourteen may take two-thirds of the dose ordered for an adult; from fourteen to nine, one-half; from nine to six, one-third; from fix to four, one-fourth; from four to two, one-fixth; from two to

one, a tenth; and below one, a twelfth.

Dispensatories are usually written in the Latin language. Even authors who write in English, generally give their prescriptions in Latin; and some of them shew so great an attachment to that language, as first to write their recipes in it, and afterwards translate them; while others, to comprise the matter, write the one half in Latin, and the other in English. What peculiar charm a medical prescription, when written in Latin, may have, I shall not pretend to say; but have ventured to make use of the plainest English I could, and hope my prescriptions will succeed no worse for it.

N. B. The Apothecary's weights, and the English wine mealares, are used throughout the whole book, the different denomina-

tions of which will appear from the following table:

A pound contains twelve ounces.

An ounce - eight drams.

A dram - three fcruples.

A fcruple - twenty grains.

A gallon contains eight pints.

A pint - - fixteen ounces.

An ounce - - eight drams.

A spoonful is the measure of half an ourse.

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A LIST of SIMPLES, and of fuch MEDICINAL	
PREPARATIONS, a	s ought to be kept in readiness for
PRIVATE PRACTICE.	
△ GARIC	Gums, kino
Alum	myrrh
Antimony, crude	opium
cinnabar of	Hartshorn, calcined
fulphur of	fhavings of
Balfam of Capivi	Herbs, leffer centaury
of Peru	peppermint
of Tolu	spearmint ,
Bark, cafearilla	penny-royal
cinnamon Mezerion	favin
Peruvian	trefoil
Winter's, or canella alba	uva urli
Borax	wormwood Lead, litharge
Calamine stone, livigated	white
Cafter, Ruffian	fugar of
Caustic, common	Lemon peal
lunar	Mace
Earth, Fuller's, Japan, Arme-	Magnefia alba
nian bole, French ditto.	Manna
Extracts, of gentian, of guaiac-	Mercury, crude
um, of hellebore black, of	calcinated
hemlock, of jalap, of liquorice,	Æthiop's mineral
of Peruvian bark, of poppies,	calomel
of wormwood	corrofive fublimate
Flowers of camomile, colts-foot,	red precipitate
elder, rosemary, damask roses,	white ditto
red ditto	Mufk
Fruits, almonds, bitter apples,	Oil, essential, of amber
cassia, fistularis, Curassao óran-	of annife
ges, figs dried, Jamaica pep-	of cinnamon
per, French prunes, juniper	of juniper
berries, nutmegs, tamarinds Gums, aloes	of lemon peal
ammoniae, in tears	of peppermint
arabic	expressed, of almonds of linseed
afofœtida	of olives, or Florence oil
camphor	of palms
galbanum	of turpentime
gamboge	Orange peel
guaiacum	Oyster shells prepared
	January Propries

Poppy heads Seeds, cummin Refins, benzoin mustard flours of fweet fennel wild carrot Burgundy pitch dragon's blood Senna Spanish flies frankincense liquid storax Sperma ceti Spirts, ætherial, or æther white, or rofin Scammony . of hartshorn Roots, birthwort of lavender compound calamus aromaticus of nitre ditto dulcified Contrayerva of fal ammoniac of fea falt gentian ginger of vinegar hellebore, black, white of vitriol jalap of wine rectified ipecacuanha volatile aromatic lilly, white Steel, filings of rust of, prepared liquorice foluble falt of marshmallow mazerion Sulphur vivum shubarb halfam of farfaparilla flour of feneka Barbadoes fquills termentil Tartar, cream of turmeric emetic Virginian Inake foluble vitriolated wild valerian zedoary Tin prepared Saffron Tutty levigated Sal ammoniae, crude Turpentine, Venice volatile Verdigreafe Salt, Epforn Vitriol, green of Glauber blue of hartshorn white nitre, purified, or prunel Wax, white yellow Rocke Woods, guaiacum of tartar logwood Seeds, anife fusiafras caraway' faunders, red car lan.em Zinc, flowers of

coriander

## MEDICAL PREPARATIONS.

### BALSAMS.

THE subject of this section is not the natural balsame, but certain compositions, which, from their being supposed to possess balsamic qualities, generally go by that name.

This class of medicines was formerly very numerous, and held in great esteem; modern practice, however, has justly reduced it to a

very narrow compass.

ANODYNE BALSAM.—Take of white Spanish soap, one ounce; opium unprepared, two drams; rectified spirit of wine, nine ounces. Digest them together in a gentle heat for three days; then strain off the liquor, and add to it three drams of camphor.

This balfam, as its title expresses, is intended to ease pain. It is of service in violent strains and rheumatic complaints, when not attended with inflammation. It must be rubbed with a warm hand on the part affected; or a linen rag moistened with it may be applied to the part, and renewed every third or fourth hour, till the pain abates. If the opium is left out, this will be the faponaceous balfam.

LOCATELLI'S BALSAM.—Take of olive oil, one pint; Strasburgh turpentine and yellow wax, of each half a pound; red saunders, six drams. Melt the wax with some part of the oil, over a gentle sire; then adding the remaining part of the oil and the turpentine; afterwards mix in the saunders, previously reduced to a powder, and keep them stirring together till the balsam is cold.

This balfam is recommended in erotions of the intestines, the dysentery, hæmorrhages, internal bruises, and in some complaints of the breast. Outwardly it is used for healing and cleansing wounds and ulcers. The dose, when taken internally, is from two

scruples to two drams.

THE VULNERARY BALSAM.—Take of benzoin, powdered, three ounces; balfam of Peru, two cunces; hepatic aloes, in powder, half an ounce; rectified fpirit of wine, two pints. Digest them in a gentle heat for three days, and then strain the balfam.

This balfam, or rather tincture, is applied externally to heal recent wounds and bruifes. It is likewife employed internally to remove coughs, ashmas, and other complaints of the breast.—It is faid to ease the cholic, cleanse the kidneys, and to heal internal ulcers, &c. The dose is from twenty to fixty drops.

This, though a medicine of some value, does not deserve the extravagant encomiums which have been bestowed on it. It has been celebrated under the different names of, The Commander's Buslam, Persian Balsam, Balsam of Berne, Wade's Buslam, Frier's Balsam, Jesuits Drops, Turlington's Drops, &c.

BOLUSES:

S boluses are intended for immediate use, volatile salts and other ingredients improper for being kept, are admitted into their composition. They are generally composed of powders, with a proper quantity of syrup, conserve, or mucilage.—The lighter powders are commonly made up with syrup, and the more ponderous, as mercury, &c. with conserve; but those of the lighter kind would be more conveniently made up with mucilage, as it increases their bulk less than the other additions, and likewise occasions the medicine to pass down more easily.

ASTRINGENT BOLUS.—Take of alum in powder, fifteen grains; gum kino; five grains; fyrup, a fufficient quantity to make

a bolus.

In an excessive flow of the menses, and other violent discharges of blood, proceeding from relaxion, this bolus may be given every four or five bours, till the discharge abates.

DIAPHORETIC BOLUS — Take of gum gualacum, in powder, ten giains; flour of fulphur and cream of tartar, of each

one scruple; simple syrap, a sufficient quantity.

In rheumatic complaints, and diforders of the skin, this bolus may be taken twice a day. It will also be of service in the inflammatory quinsey.

MERCURIAL BOLUS .- Take of calomel, fix grains; con-

ferve of roses, half a dram. Make a bolus.

Where mercury is necessary, this bolus may be taken twice or thrice a week. It may be taken over night; and if it does not operate, a few grains of jalap will be proper next day to carry it off.

BOLUS OF RHUBARB AND MERCURY.—Take of the best rhubarb, in powder, from a scruple to half a dram; of calomel, from four to five grains; simple syrup, a sufficient quantity to make a bolus!

This is a proper purge in hypocondriac conflictions; but its principal intention is to expel worms. Where a firong purge is acceptary, julian may be used instead of the rhuburh.

PECTORAL BOLUS .- Take of spermaceti, a scruple; gum ammoniae, ten grains; salt of hartshorn, fix grains; simple syrup,

as much as will make them into a bolus.

This bolus is given in colds and coughs of long standing, ashmas, and beginning of contumptions of the lungs. It is generally proper bland the patient, before he begins to use it.

PURGING BOLUS.—Take of jalap, in powder, a scruple. cream of tartar, two scruples. Let them be rubbed together, and formed into a bolus, with simple syrup.

Where a mild purge is wanted, this will answer the purpose very well. If a stronger dose is necessary, the jalap may be increased

to half a dram or upwards.

#### CATAPLASMS AND SINAPISMS.

CATAPLASMS possesses few or no virtues superior to a poultice, which may be so made, as, in most cases, to supply their place. They are chiefly intended either to act as discutients, or to promote suppuration; and as they may be of service in some cases, we shall give a specimen of each kind.

DISCUTIENT CATAPLASM.—Take of barley meal, fix ounces; fresh hemlock leaves, bruised, two ounces; vinegar a sufficient quantity. Boil the meal and hemlock in the vinegar, for

a little time, and then add two drams of the fugar of lead

RIPENING CATAPLASM.—Take of white lilly root, four ounces; fat figs and raw onions, bruifed, of each one ounce; yellow basilicon ointment, two ounces; gum galbanum, half an ounce; linseed meal, as much as necessary. Boil the roots along with the figs in a sufficient quantity of water; then bruise and add to them the other ingredients, so as to form the whole into a soft cataplasm. The galbanum must be previously dissolved with the yolk of an egg.

Where it is necessary to promote suppuration, this cataplasm may be used by those who choose to be at the trouble and expense of making it. For my part, I have never found any application more proper for this purpose than a poultice of bread and milk, with a sufficient quantity of either boiled or raw onion in it, and softened

with oil or fresh butter.

SINAPISMS.—Sinapifms are employed to recal the blood and-fpirits to a weak part, as in the palfy and atrophy. They are also of fervice in deep seated pains, as the sciatica, &c. When the gout seizes the head or the stomach, they are applied to the feet to bring the disorder to these parts. They are likewise applied to the patient's soles in the low state of severs. They should not be suffered to lie on, however, till they have raised blisters, but till the parts become red, and will continue so when pressed with the singer.

The finapism is only a poultice made of vinegar instead of milk, and rendered warm and stimulating by the addition of mustard,

horse radish, or garlic.

The common finapifm is made by taking crumb 'of bread and multard feed in powder, of each equal quantities; fitrong vinegar, as much as is sufficient, and mixing; them so as to make a poultice.

When finapifms of a more stimulating nature are wanted, a little bruifed garlic may be added to the above

CLYSTERS.

THIS class of medicine is of more importance than is generally imagined. Clysters serve, not only to evacuate the contents of the belly, but also to convey very active medicines into the system. Opium, for example, may be administered in this way when it will not sit upon the stomach, and also in larger doses than at any time it can be taken by the mouth. The Peruvian bark may likewise be with good effect, administered in form of a clyster to persons who cannot take it by the mouth.

A fimple clyster can seldom do hurt, and there are many cases where it may do much good. A clyster even of warm water, by serving as a somentation to the parts, may be of considerable service in inflammations of the bladder, and the lower intestines, &c.

Some substances, as the smoke of tobacco, may be thrown into the bowels in this way, which cannot by any other means whatever. This may be easily effected by means of a pair of hand bellows, with an apparatus fitted to them for that purpose.

Nor is the use of clysters confined to medicines. Aliment may also be conveyed in this way. Persons unable to swallow, have

been for a confiderable time, supported by clysters.

EMMOLIENT CLYSTER.—Take of linseed tea and new

milk, each fix ounces. Mix them.

It fitty or fixty drops of landanum be added to this, it will sup-

ply the place of the Anodyne Clyster.

LAXATIVE CLYSTER.—Take of milk and water, each fix ounces; fweet oil or fresh butter, and brown sugar, of each two ounces. Mix them.

If an ounce of Glauber's falt, or two table-spoonfuls of common

falt, be added to this, it will be the Purging Clyster.

CARMANATIVE CLYSTER.—Take of camomile flowers an ounce; anife feeds, half an ounce. Boil in a pint and a half of water to one pint.

In hysteric and hypocondriac complaints, this may be administered instead of the Fatid Clyster, the faiell of which is so disagreeable

to most patients.

OILY CLYSTER .- To four ounces of the infusion of camo-

mile flowers, add an equal quantity of Florence oil.

This clyster is beneficial in bringing off the small worms in the lower parts of the alimentary canal. When given to children, the quantity must be proportionally lessened.

STARCH CLYSTER.—Take jelly of starch, four ounces; linfeed oil, haif an ounce. Liquify the jelly over a gentle fire, and then mix in the oil.

In the dyfentery, or bloody flux, this clyster may be administered after every loose stool, to heal the ulcerated intestines, and blunt the sharpness of correding humours. Forty or fifty drops of laudanum may be occasionally added; in which case, it will generally supply the place of the Astringent Clyster.

TURPENTINE CLYSTER.—Take of common decoction, ten ounces; Venice turpentine diffolved with the yolk of an egg,

half an ounce; Florence oil, one ounce. Mix them.

This diuretic clyfter is proper in obstructions of the urinary pat-

fages, and in cholicy complaints, proceeding from gravel.

VINEGAR CLYSTER.—This clyster is made by mixing

three ounces of vinegar with five of water gruel.

It answers all the purposes of a common clyster, with the peculiar advantage of being proper either in inflammatory or putrid disorders, especially in the latter.

We think it unnecessary to give more examples of this class of medicine, as ingredients adapted to any particular intention, may be occasionally added to one or another of the above forms.

COLLYRIA, OR EYE-WATERS.

YE-WATERS have been multiplied without numbers, almost every person pretending to be possessed of some secret preparation for the cure of sore eyes. I have examined many of them, and find that they are pretty much alike, the basis of most of them being either alum, vitriol, or lead. Their effects evidently are, to brace and restore the tone of the parts: hence they are principally of service in slight instammations; and in that relaxed state of the parts which is induced by obstinate ones.

Camphor is commonly added to these compositions; but as it seldom incorporates properly with the water, it can be of little uses. Boles and other earthy substances, as they do not dissolve in water,

are likewise unsit for this purpose.

COLLYRIUM OF ALUM .- Take of alum, half a dram;

agitate it well together with the white of one egg.

This is the collyrium of Riverius. It is used in inflammation of the eyes, to allay heat, and restrain the flux of humors. It must be spread upon linen, and applied to the eyes, but should not be kept on above three or four hours at a time.

VITRIOLIC COLLYRIUM.—Take of white vitriol, half a dram; rose water, fix ounces. Diffolve the vitriol in the water,

and filter the liquor.

This, though simple, is perhaps equal in virtue to most of the celebrated collyria. It is a useful application in weak, watery, and inflamed eyes. Though the slighter inflammations will generally yield to it, yet in those of a more obstinate nature, the assistance of bleeding and biffering will often be a scallary.

When a strong astringent is judged proper, a double or triple quantity of the vitriol may be used. I have seen a solution of sour times the strength of the above, used with manifest advantage.

COLLYRIUM OF LEAD.—Take fugar of lead, and crude fal ammoniac, of each four grains. Diffolve them in eight ounces

of common water.

Forty or fifty drops of laudanum may be occasionally added to

this collyrium.

Those who choose may substitute instead of this the collyrium of lead recommended by Goddard; which is made by putting twenty-five drops of his extract of lead, to eight ounces of water, and adding a tea-spoonful of brandy.

Indeed, common water and brandy, without any other addition, will in many cases answer very well as a collyrium. An ounce of the latter may be added to five or fix ounces of the former; and the

eyes, if weak, bathed with it night and morning.

#### CONFECTIONS.

CONFECTIONS, containing above fixty ingredients, are still to be found in some of the most reformed dispensatories. As most of their intentions, however, may be more certainly, and as effectually answered by a few glasses of wine, or grains of opium, we shall pass over this class of medicine very slightly.

JAPONIC CONFECTION.—Take of Japan earth, three cances; tormentil root, nutmeg, olibanum, of each two ounces; opium diffolved in a fufficient quantity of Lifbon wine, a dram and, a half; fimple fyrup and conferve of rofes, of each tourteen ounces.

Mix and make them into an electuary.

This supplies the place of the Diafcordium.

The dose of this electuary is from a scruple to a dram.

CONSERVES AND PRESERVES.

VERY apothecary's shop was formerly so full of these preparations, that it might have passed for a confectioner's ware-bouse. They possess very sew medical properties, and may rather be classed among sweetmeats than medicines. They are sometimes, however, of use, for reducing into bolusses or pills, some of the more ponderous powders, as the preparations of iron, meicury,

and tin.

Conserves are compositions of fresh vegetables and sugar, beaten together into an uniform mass. In making these preparations, the leaves of vegetables must be freed from their stalks, the slowers from their cup, and the yellow part of orange peel taken off will

a rasp. Then they are to be pounded in a marble mortar, with a wooden pestle, into a smooth mass; after which, thrice their weight of fine fugar is commonly added by degrees, and the beating continued till they are uniformly mixed; but the conferve will be better if only twice its weight of fugar be added.

Those who prepare large quantities of conserve generally reduce the vegetables to a pulp by the means of a mill, and afterwards beat

them up with the fugar.

CONSERVE OF RED ROSES .- Take a pound of rofe buds, cleared of their heels; beat them well in a mortar, and, adding by degrees two pounds of double refined sugar, in powder, make a conferve.

After the same manner are prepared the conserves of orange peel, rosemary howers, sea wormwood, of the leaves of wood-

Torrel, &c.

The conserve of roses is one of the most agreeable and useful preparations belonging to this class. A dram or two of it disloved in warm milk, is ordered to be given as a gentle rest ringent in weakness of the stomach, and likewise in phthisical coughs, and spitting of blood. To have considerable effects, however, it must be taken in large quantities.

CONSERVE OF SLOES S This may be made by boiling the Roes gently in water, being careful to take them out before they burst; expressing the juice, and beating them up with three times

its weight of fine sugar.

In relaxations of the uvula and glands of the throat, this makes

an excellent gargle, and may be used at discretion.

Preserves are made by sceeping or boiling fresh vegetables first in water, and afterwards in fyrup, or a folution of fugar. The fubject is either preserved moist in the syrup, or taken out and dried, that the fugar may candy upon it. The last is the most useful method.

CANDIED ORANGE FEEL .- Soak Seville orange peel in several waters, till it loses its bitterness, then boil it in a solution of double refined fugar in water, till it becomes tender and trans-

rarcnt.

Candied lemon peel is prepared in the same manner.

It is needless to add more of these preparations, as they belong rather to the art of the confectioner than that of the apothecary.

DECOCTIONS.

X / A T E R readily extracts the gummy and faline parts of segetables; and though its action is chiefly confined to these, yet the refinous and oily being intimately blended with the general and faline, are in great part taken up along with them. Hence watery decoctions and infusions of vegetables constitute a large, and not unuseful class of medicines. Altho' most vegetables yield their virtues to water, as well by infusion as decoction, yet the latter is often necessary, as it saves time, and does in a few minutes what the other would require hours, and sometimes days to effect.

The medicines of this class are all intended for immediate use.

DECOCTION OF ALTH ÆA.—Take of the roots of marsh mallow, moderately dried, three ounces; raisins of the sun, one ounce; water three pints.

Boil the ingredients in the water till one third of it is confumed; afterwards frain the decoction and let it frand for some time to settle. If the roots be thoroughly dried, they must be boiled till one half

the water be confumed.

In coughs, and tharp defluctions upon the lungs, this decoction

may be nied for ordinary drink.

THE COMMON DECOCTION.—Take of camomile flowers, one ounce; elder flowers, and fweet fennel feeds, of each half an ounce; water, two quarts. Boil them for a little, and then strain the decoction

A medicine equally good maye, inrepared by infufing the ingre-

dients for some hours in boiling des r.

This decoction is chiefly intended as the basis of clysters, to which other ingredients may be occasionally added. It will likewise serve as a common formentation, spirit of wine orother things being added in such quantity as the case may require.

DECOCTION OF LOGWOOD.—Boil three ounces of the shavings, or chips, of logwood, in four pints of water, till one half the liquor is wasted; two or three ounces of simple cinnamon-

water may be added to this decoction.

In fluxes of the belly, where the stronger astringents are improper, a tea-cup full of this decoction may be taken with advantage three

or four times a day.

DECOCTION OF THE BARK.—Boil an ounce of Peruvian bark, grofsly powdered, in a pint and a half of water, to one pint; then strain the decoction. If a tea-spoonful of the weak spirit of vitried be added to this medicine, it will render it both more agreeable and efficacious.

COMPOUND DECOCTION OF THE BARK.—Take of Peruvian bark and Virginian fnake-root, grossly powdered, each three drams, Boil them in a pint of water to one half. To the

strained liquor add an ounce and a half of aromatic water.

Sir John Pringle recommends this as a proper medicine towards the decline of malignant fevers, when the pulse is low, the voice weak and the head affected with a stupor, but with little

The dose is four spoonfuls every fourth or fixth hour.

DECOCTION OF SARSAPARILLA.—Take of fresh farfuparilla root sliced and bruised, two ounces; thavings of guaiacum wood, one ounce. Boil over a flow fire, in three quarts of water, to one; adding towards the end, half an ounce of sassaras

wood, and three drams of liquorice. Strain the decoction.

This may either be employed as an affiliant to a course of mercurial alteratives, or taken after the mercury has been used for some time. It strengthens the stomach, and restores shesh and vigour to habits emacinted by the venereal disease. It may also be taken in the rheuminism and entangous disorders proceeding from soulness of the blood and juices. For all these intentions it is greatly preferable to the Decostion of Woods.

This decoction may be taken, from a pint and a half to two

quarts in the day.

The following decoction is faid to be si nilar to that used by Kennedy, in the cure of the venereal disease, and may supply the place

of Lisb in diet drink;

Take of farfaparilla, three ounces; liquorice and mezerion root, of each half an ounce; shavings of guaiacum and sassars wood, of each one ounce; crude antimony, powdered, an ounce and a half. Insufe these ingredients in eight pints of boiling water for twenty-four hours, then boil them till one half of the water is consumed; afterwards strain the decostion.

This decoction may be used in the same manner as the preceding.

DECOCTION OF SENEKA.—Take of seneka ratile snake foot, one ounce; water, a pint and a half. Boil to one pint, and

strain.

This decoction is recommended in the pleurify, dropfy, rheumatifin, and fome obstinate disorders of the skin. The dose is two ounces, three or four times a day, or oftener, if the stomach will bear it.

WHITE DECOCTION.—Take of the purest chalk, in powder, two ounces; gum arabic, half an ounce; water, three pints.

Boil to one quart, and strain the decoction.

This is a proper drink in acute diseases, attended with, or inclining to a looseness, and where acidities abound in the stomach or bowels. It is peculiarly proper for children when associated with fourness of the stomach, and for persons who are subject to the heartburn. It may be sweetened with sugar, as it is used, and two or three ounces of simple cionamon-water added to it.

An ounce of powdered chalk, mixed with two pints of water, will occasionally supply the place of this decoction, and also of the

chalk julep 3 N

#### DRAUGHTS.

tended to operate immediately, and which do not need to be frequently repeated, as purges, vomits, and a few others, which are to be taken at one dose. Where a medicine requires to be used for any length of time, it is better to make up a larger quantity of it at once, which saves both trouble and expence.

ANODYNE DRAUGHT.—Take of liquid laudanum, twenty-five drops; fimple cinnamon water, an cunce; common fyrup,

two drams. Mix them.

In excessive pain, where bleeding is not necessary, and in great restless, this composing draught may be taken and repeated occasionally.

DIURETIC DRAUGHT.—Take of the diuretic falt, two feruples; fyrup of poppies, two drams; fimple cinnamon-water, and common water of each an ounce.

This draught is of fervice in an obstruction or deficiency of

urine.

PURGING DRAUGHTS.—Take of manna, an ounce; folable tartar, or Rochel falt, from three to four drams. Diffolve in three ounces of boiling water; to which add Jamaica pepper water, half an ounce.

As many a formetimes will not fit upon the ftomach, an cunce or ten drams of the bitter purging falts, diffolved in four cunces of water, may be taken instead of the above.

Those who cannot take falts, may use the following draught:

Take of jalap in powder, a feruple; common water, an ounce; aromatic tincuire, fix drams. Rub the jalap with twice its weight of fugar, and add to it the other ingredients.

SWEATING DRAUGHTS—Take spirits of Mindererus, two ounces; salt of hartshorn, swe grains; simple cinnamen water, and syrup of poppies, of each half an ounce. Make them into a draught.

In recent colds and rhoumatic complaints, this draught is or fervice. To promote its effects, however, the patient eight to drive freely of warm water-gruel or fome other weak diluting liquor.

VOMITING DRAUGHTS.—Take of inconcutating, in powder, a feruple; water, an ounce; fimple fyrup a drain. Mix them.

Perfons who require a stronger vomit, may add to the above half

a grain, or a grain, of emetic tartar.

Those who do not choose the powder may take ten drams of the ipecacuanha wine; or half an ounce of the wine, and an equal quantity of the syrup of squills.

## ELECTUARIES.

ELECTUARIES are generally composed of the lighter powders, mixed with syrup, honey, conserve, and mucilage, into such a consistence, that the powders may neither separate by keeping, nor the mass prove too stiff for swallowing. They receive chiefly the mill alterative medicines, and such as are not ungrateful to the palate.

Aftringent Electuaries, and fuch as have pulps of fruit in them, should be prepared only in small quantities: as aftringent medicines lose their virtues by being kept in this form, and the pulps of fruits,

are apt to ferment.

For the extraction of pulps, it will be acceffary to beil unripe fruits, and ripe ones, if they are dried, in a finall quantity of water, till they become foft. The pulp is then to be pressed out through a strong hair sieve, or thin cloth, and afterwards boiled to a due consistence, in an earthen vessel, over a gentle fire, taking care to prevent the matter from burning, by continually stirring it. The pulp of fruits that age both ripe and fresh, may be pressed out, without any previous boiling.

LENITIVE ELECTUARY.—Take of fenna, in fine powder, eight ounces; coriander feed, also in powder, four ounces; pulp of tamarinds and of French prunes, each a pound. Mix the pulps and powders together, and with a sufficient quantity of simple syrup,

reduce the whole into an electuary.

A tea-spoonful of this electuary, taken two or three times a-day, generally proves an agreeable laxative. It likewise serves as a convenient vehicle for exhibiting more active medicines, as julaps, seammony, &c.

This may supply the place of the Electuary Cassia.

ELECTUARY FOR THE DYSENTERY.—Take of the Japonic confection, two ounces; Locatelli's balfam, one ounce; rhubarb, in powder, half an ounce; fyrup of marshmallows, enough to make an electuary.

It is often dangerous in dysenteries to give opiates and astringents, without interposing purgatives. The purgatives are here joined with these ingredients, which renders this a very safe and useful medicine

for the purposes expressed in the title.

About the bulk of a nutmeg should be taken twice or thrice

a-day, as the fymptoms and constitution may require.

ELECTUARY FOR THE EPILEPSY.—Take of Peruvian bark, in powder, an ounce; of powdered tin, and wild valerian root, each half an ounce; fimple fyrup, enough to make an electuary.

Dr. Mead directs a dram of an electuary fimilar to this to be taken evening and morning, in the epilepfy, for the space of three months. It will be proper, however, to discontinue the use of it for a few days, every now and then. I have added the powdered tin, because the epilepfy often proceeds from worms.

ELECTUARY FOR THE GONORRHOEA.—Take of lenitive electuary, three onness; jalap, and thubarb, in powder, of each two drams; nitre, half an ounce; fimple fyrup, enough to

make an electuary.

During the inflummation and tention of the urinary passages, which accompany a virulent gonorthoea, this cooling laxative may be used with advantage.

The dole is a dram, or about the bulk of a nutmeg, two or three times a-day; more or left, as may be necessary to keep the body

gently open.

An Electuary made of cream of tartar and simple syrup, will oc-

casionally supply the place of this.

After the inflammation is gone off, the following electuary may be used:

Take of Lenitive Electuary, two ounces; ballam of capivi, one ounce; gum guaiacum, and thubarb, in powder, of each two draws; timple fyrup, enough to make an electuary. The dofe is the fame as of the preceding.

ELECTUARY OF THE BARK.—Take of Peruvian bark, in powder, three onnees; cafearilla, half an onnee; fyrup of gin-

ger, enough to make an electuary.

In the cure of obstinate intermitting fevers, the bark is efficted by the cascarilla. In hectic habits, however, it will be better to leave out the cascarilla, and put three drains of crude sal ammoniac in its stead.

ELECTUARY FOR THE PILES.—Take flour of sulphur, one once; cream of tartar, half an ounce; treacle, a sufficient

quantity to make an electuary.

A tea-spoonful of this may be taken three or sour times a day. ELECTUARY FOR THE PALSY.—Take of powdered multard seed, and conserve of soles, each an ounce; syrup of ginger, enough to make an electuary.

A tea-spoonful of this may be taken three or four times a-day. ELECTUARY FOR THE RHEUMATISM—Take of conserve of roses, two ounces; cinnabar of autimony, livigated, an ounce and an half; gum guaiacum, in powder, an ounce; syrup of ginger, a sufficient quantity to make an electuary.

In obstinate rheumatisms, which are not accompanied with a fever, a tea spoonful of this electuary may be taken twice a day,

with confiderable advantage.

# MULSIONS.

MULSIONS, besides their use as medicines, are also proper vehicles for certain substances vehicles for certain substances, which could not otherwise be conveniently taken in a liquid form. Thus camphor, triturated with almonds, readily unites with water into an emulsion. Pure oils, ballams, refins, and other fimilar fubitances, are likewife rendered miscible with water, by the intervention of mucilages.

COMMON EMULSION .- Take of fweet almonds, an ounce;

bitter almonds, a drain; water, two pints.

Let the almonds be blanched, and beat up in a marble mortar; adding the water by little and little, fo as to make an emulsion; afterwards let it be strained.

ARABIC EMULSION. - This is made in the fame manner as the above, adding to the almonds, while beating, two ounces and an

half of the mucilage of gum arabic.

Where fost cooling liquors are necessary, these emulsions may be

used as ordinary drink.

CAMPHORATED EMULSION .- Take of camphor, half a dram; fweet almonds, half a dozen; white fugar, half an ounce; mint water, eight ounces. Grind the camphor and almonds well together in a stone mortar, and add by degrees the mint water; then strain the liquor and dissolve in it the sugar.

In fevers, and other disorders which require the use of camphor, a table-spoonful of this emulsion may be taken every two or three

hours.

EMULSION OF GUM AMMONIAC - Take of gum ammoniac, two drams; water, eight ounces. Grind the gum with the water poured upon it by little and little, till it is dif-

This emultion is used for attenuating tough viscid phlegm, and promoting expectoration. In obstinate coughs, two ounces of the furup of poppies may be added to it. The dose is two table-speconfuls three or four times a-day.

OILY EMULSION .- Take of foft water, fix ounces; volatile aromatic spirit, two drams; Florence oil, an ounce; shake them

well together, and add, of fimple fyrup, half an onnce

In recent colds and coughs, this emultion is generally of fervice; but if the cough proves obstinate, it will succeed better when made with the paregoric clixir of the Edinburgh Difpensatory, instead of the volatile aromatic spirit. A table-spoontul of it may be taken every two or three hours.

EXTRACTS.

TXTRACTS are prepared by boiling the fobject in water, and a evaporating the strained decoction to a due consistence. By this process, some of the more active parts of plants are freed from the useless, indissoluble, earthy matter, which makes the larger share of their bulk. Water, however, is not the only menstruum used in the preparation of extracts; sometimes it is joined with spirits, and at other times rectified spirits alone is employed for that

purpole.

Extracts are prepared from a variety of different drugs, as bark, gentian, jalap, &c. but as they require a troublesome and tedious operation, it will be more convenient for a private practitioner to purchase what he needs of them from a professed druggist, than to prepare them himself. Such of them as are generally used are inferted in our list of such drugs and medicines, as are to be kept for private practice.

FOMENTATIONS.

by taking off tension and spasm, or to brace and restore the tone and vigor of those parts to which they are applied. The first of these intentions may generally be answered by warm water, and the second by cold. Certain substances, however, are usually added to water, with a view to heighten its essects, as anodynes, aromatics, astringents, &c. We shall therefore subjoin a few of the most useful medicated somentations, that people may have it in their power to make use of them if they choose.

ANODYNE FOMENTATION.—Take of white poppy heads, two ounces; elder flowers, half an ounce: water, three pints. Boil them till one pint is evaporated, and strain out the li-

quoi.

This formentation, as its title expresses, is used for relieving acute

pain.

AROMATIC FOMENTATION.—Take of Jamaica pepper, half on ounce; red wine, a pint. Boil them for a little time, and

then strain the liquor.

This is intended not only as a topical application for external complaints, but also for relieving the internal parts. Pains of the bowels, which accompany dysenteries and diarrheas, flatulent cholics, uneasiness of the stomach, and reachings to vanit, are frequently abated by somenting the abdomen, and region of the stomach, with warm liquer.

COMMON FOMENTATION.—Take tops of wormwood and camomile flowers, dried, of each two ounces; water, two quarts.

After a flight boiling, pour off the liquor.

Brandy, or spirit of wine, may be added to this somentation, in such quantity as the particular circumstances of the case shall require: but these are not always necessary.

EMOLLIENT FOMENTATION.—This is the fame as the

common decection.

STRENGTHENING FOMENTATION—Take of oalc bark, one ounce; granate peel, half an ounce; alum, two drams; fmith's forge water, three pints. Boil the water with the bark and peel to the confumption of one third; then strain the remaining decoction, and diffolve it in alum.

This astringent liquor is employed as an external fomentation to

weak parts; it may also be used internally.

GARGLES.

HOWEVER trifling this class of medicine may appear, they are by no means without their use. They seldom indeed cure diseases, but they often alleviate very disagreeable symptoms as parchedness of the mouth, soulness of the tongue and sauces, &c. they are peculiarly useful in severs and sore throats. In the latter, a gargle will sometimes remove the disorder; and in the former, sew things are more refreshing or agreeable to the patient, than to have his mouth frequently washed with some soft detergent gargle.

One advantage of these medicines is that they are casily prepared. A little barley water and honey may be had any where; and if to these be added as much vinegar as will give them an agreeable sharpness, they will make a very useful gargle for softening and

cleanling the mouth.

Gargles have the best effect when injected with a syringe.

ATTENUATING GARGLE.—Take of water, fix ounces; honey, one ounce; nitre, a dram and a half. Mix them.

This cooling gargle may be used either in the inflammatory quin-

fey, or in fevers, for cleaning the tongue and fauces.

COMMON GARGLE.—Take of role water, fix ounces; fyrup of clover, July flowers, half an ounce; spirit of vitriol, a sufficient quantity to give it an agreeable sharpness. Mix them.

This gargle, besides cleanling the tongue and fauces, acts as a

gentle repellent, and will fometimes remove a flight quinfey.

DETERGENT GARGLE.—Take of the emollient gargle, a pint; tinclure of myrrh, an ounce; honey, two ounces. Mix them.

When exulcerations require to be cleanfed, or the excretion of

tough viscid saliva promoted, this gargle will be of service.

EMMOLLIENT GARGLE.-Take an ounce of marshmallow roots, and two or three sigs; boil them in a quart of water till near one half of it be consumed; then strain out the liquor.

If an ounce of honey, and half an ounce of spirit of sal ammoniae, be added to the above, it will then be an exceeding good

attenuating gargle!

This gargle is beneficial in fevers, where the tongue and fauces are rough and parched, to foften their parts, and promote the dif-

charge of faliva.

The learned and accurate Sir John Pringle observes, that in the inflammatory quinsey, or strangulation of the fauces, little benefit arises from the common gargles; that such as are of an acid nature do more harm than good, by contracting the emunctories of the saliva and mucus, and thickening those humors; that a decoction of figs in milk and water has a contrary effect, especially if some sal ammoniac be added: by which the saliva is made thinner, and the glands brought to secrete more freely; a circumstance always conducive to the cure

#### INFUSIONS.

VEGETABLES yield nearly the fame properties to water by infusion, as by decoction; and though they may require a longer time to give out their virtues in this way, yet it has several advantages over the other, since boiling is found to dissipate the siner parts of many bitter and arromatic substances, without more fully

extracting their medicinal principles.

The author of the New Dispensatory observes, that even from those vegetables which are we k in virtue, rich insusions may be obtained, by returning the liquor upon fresh quantities of the subject, the water loading itself more and more with the active parts, and that these loaded insusions are applicable to valuable purposes in medicine, as they contain in a small compass the finer, more subtile, and active principles of vegetables, in a form readily miscible with the fluids of the human body.

BITTER INFUSION.—Take tops of the leffer centaury and camomile flowers, of each half an ounce; yellow rind of lemon and orange peel, carefully freed from the inner white part, of each two drains. Cut them in small pieces, and intuse them in a quart

of boiling water.

For indigestion, weakness of the stomach, or want of appetite, a tea-eupful of this insusion may be taken twice or thrice a-day.

INFUSION OF THE BARK.—Take an ounce of the bark, in powder; add four or five table-spoonfuls of brandy, and a pint

of boiling water. Let them infuse for two or three days.

This is one of the helt preparations of the bark for weak Romachs. In diforders where the corroborating virtues of that medicine are required, a tea-cupful of it may be taken two or three times a-day.

INFUSION OF CARDUUS.—Infuse an ounce of the dried leaves of cardous benedictus, or bleffed thittle, in a pint of common water for fix hours, without heat; then filter the liquor through paper.

This light infusion may be given, with great benefit, in weakness of the stomach, where the common bitters do not agree. It may be flavoured at pleasure with cinnamon or other aromatic materials.

INFUSION OF LINSEED .- Take of linfeed, two fpoonfuls; liquorice root, fliced half an ounce; boiling water, three pints. Let them stand to infuse by the fire for some hours, and then

strain off the liquor.

If an ounce of the leaves of colt's foot be added to these ingredients, it will then be the pectoral infusion. Both these are emmollient mucilaginous liquors, and may be taken with advantage, as ordinary drink in difficulty of making water; and in coughs and other complaints of the breaft.

INFUSION OF ROSES .- Take of red roses, dried, half an ounce; boiling water, a quart; vitriolic acid, commonly called oil

of vitrol, half a dram; loaf fugar, an ounce.

Infuse the roses in the water for four hours, in an unglazed earthern vessel; afterwards pour in the acid, and having strained

the liquor, add to it the fugar.

In an excellive flow of the menses, vomiting of blood, and other hæmorrhages, a tea-cupful of this gently astringent infusion may be taken every three or four hours. It likewise makes an exceeding good gargle.

As the quantity of roles used here can have little or no effect, an equally valuable medicine may be prepared by mixing the acid and

water without infulion.

INFUSION OF TAMARINDS AND SENNA .- Take of tamarinds, one ounce; fenna, and crystals of tartar, each two drains. Let these ingredients be infused four or five hours in a pint of boiling water; afterwards let the liquor be strained, and an ounce or two of the aromatic tincture added to it. Persons who are eafily purged may leave out either the tamarinds or the crystals of tartar.

This is an agreeable cooling putge. A tea-cupful may be given The second of

every half hour till it operates.

This supplies the place of the decoction of tamarinds and sennu.

SPANISH INFUSION .- Take of Spanish juice, cut into small pieces, an ounce; falt of tartar three drams. Infuse in a quart of boiling water for a night. To the strained liquor add an ounce and a half of the fyrup of poppies.

In recent colds, coughs and obstructions of the breast, a teacupful of this infusion may be taken with advantage three or four

times a-day.

INFUSION FOR THE PALSY .- Take of horse radisfi root haved, mustard feed bruised, each four ounces; outer rind of

The same of the Parties.

orange-peel, one ounce. Infuse them in two quarts of boiling wa-

ter in a close vessel, for twenty-four hours.

In paralytic complaints, a tea-cupful of this warm stimulating medicine may be taken three or four times a-day. It excites the action of the solids, prove diurctic, and, if the patient be kept warm, promotes perspiration.

If two or three ounces of the dried leaves of marsh-trefoil be used

instead of the mustard, it will make the antiscorbatic infusion.

### JULEPS.

THE basis of juleps is generally common water, or some simple distilled water, with one third or one sourth its quantity of distilled spirituous water, and as much sugar or syrup as is sufficient to render the mixture agreeable. This is starpened with vegetable or mineral acids, or impregnated with other medicines suitable to the intention.

CAMPHORATED JULEP.—Take of camphor, one dram; rectified spirit of wine, ten drops; double refined sugar, half an ounce; boiling distilled water, one pint. Rub the camphor first with the spirit of wine, then with the sugar; lastly, add the water by degrees, and strain the liquor.

In hysterical and other complaints where camphor is proper, this julep may be taken in the dose of a spoonful or two, as often as the

stomach will bear it.

CORDIAL JULEP.—Take of simple cinnamon-water, four ounces; Jamaica pepper-water, two ounces; volatile aromatic spirit, and compound spirit of lavender, of each two drams; syrup of orange peel, an ounce. Mix them.

This is given in the dose of two spoonfuls three or four times aday in disorders accompanied with great weakness and depression of

Spirits

EXPECTORATING JULEP.—Take of the emultion of gum ammoniac, fix ounces; fyrup of squills, two ounces. Mix them.

In coughs, afthmas, and obstructions of the breast, two tablespoonfuls of this julep may be taken every three or four hours.

MUSK JULEP.—Rub half a dram of musk well together with half an ounce of sugar, and add to it, gradually, of simple cinnamon and peppermint water, each two ounces; of the volatile aromatic spirit, two drams.

In the low state of nervous fevers, hickuping, convulsions, and other spasmodic affections, two table-spoonfuls of this julep may be

taken every two or three hours.

SALINE JULEP.—Diffolve two drams of falt of tartar in three ounces of fresh lemon-juice, strained; when the effervescence is over, add of mint-water, and common water, each two ounces; of simple syrup, one ounce.

This removes fickness at the stomach, relieves vomiting, promotes perspiration, and may be of some service in fevers, especially of the inflammatory kind.

VOMITING JULEP .- Distolve four grains of emetic tartar in eight ounces of water, and add to it half an ounce of the fyrun of

clove July flowers.

In the beginning of fevers, where there is no topical inflammation, this julep may be given in the dose of one table-spoonful every quarter of an hour till it operates. Antimonial vomits serve not only to evacuate the contents of the stomach, but likewise to promote the different excretions. Hence they are found in fevers to have nearly the same effects as Dr. Fames's Powder.

MIXT

MIXTURE differs from a Julep in this respect, that it re-A ceives into its composition not only falts, extracts, and other fubstances diffoluble in water, but also earths, powders, and such substances as cannot be dissolved. A mixture is seldom either an elegant or agreeable medicine. It is nevertheless necessary. Many persons can take a mixture, who are not able to swallow a bolus or an electuary; besides, there are medicines which act better in this,. than any other form.

ASTRINGENT MIXTURE.—Take simple cinnamon-water and common water, of each three ounces; spiritous cinnamonwater, an ounce and a half; Japonic confection, half an ounce.-

Mix them.

In dysenteries which are not of long standing, after the necessary evacuations, a spoonful or two of this mixture may be taken every four hours, interpoling every fecond or third day a dose of rhubarb.

DIURETIC MIXTURE.—Take of mint-water, five ounces; vinegar of squills, fix drams; sweet spirit of nitre, half an ounce;

fyrup of ginger, an ounce and a half. Mix them.

In obstructions of the urinary passages, two spoonfuls of this

mixture may be taken twice or thrice a day.

LAXATIVE ABSORBENT MIXTURE.—Rub one dram of magnelia alba in a mortar with ten or twelve grains of the best Turky rhubarb, and add to them three ounces of common water; simple cinnamon-water, and lyrup of sugar, of each one ounce.

As most diseases of infants are accompanied with acidities, this mixture may either be given with a view to correct thefe, or to open the body. A table-speonful may be taken for a dose, and repeated three times a-day. To a very young child, half a spoonful will be sufficient.

When the mixture is intended to purge, the dose may either be

increased, or the quantity of Rhubarb doubled.

This is one of the most generally useful medicines for children,

with which I am acquainted.

SALINE MIXTURE.—Diffolve a dram of the falt of tartar in four ounces of boiling water; and, when cold, drop into it spirit of vitriol till the effervescence ceases; then add, of peppermint-water, two ounces; simple syrup, one ounce.

Where fresh lemons cannot be had, this mixture may occasionally

Supply the place of the faline julep.

SQUILL MIXTURE.—Take of simple cinnamon-water, five ounces; vinegar of squills, one ounce; syrup of marshmallows, an ounce and a half. Mix them.

This mixture, by promoting expectoration, and the lecretion of urine, proves ferviceable in althmatic and dropfical habits. A table

spoonful of it may be taken frequently.

OINTMENTS, LINIMENTS, AND CERATES.

OTWITHSTANDING the extravagant encomiums which have been bestowed on different preparations of this kind, with regard to their esseasy in the cure of wounds, fores, &c. it is beyond a doubt, that the most proper application to a green wound, is dry lint. But though ointments do not heal wounds and fores, yet they serve to defend them from the external air, and to retain such substances as may be necessary for drying, deterging, destroying proud short, and such like. For these purposes, however, it will be sufficient to insert only a sew of the most simple forms, as ingredients of a more active nature can occasionally be added to them.

YELLOW BASILLICON OINTMENT.—Take of yellow wax, white refin, and frankincense, each a quarter of a pound; melt them together over a gentle fire; and then add, of hog's lard prepared, one pound. Strain the ointment while warm.

This ointment is employed in cleanfing and healing wounds and

nicers.

OINTMENT OF CALAMINE.—Take of olive oil, a pint and a half; white wax, and calamine stone levigated, of each half a pound. Let the calamine stone, reduced into a fine powder, be subbed with some part of the oil, and afterwards added to the rest of the oil and wax, previously melted together, continually stirring them till quite cold.

This continent, which is commonly known by the name of Turner's Cerate, is an exceeding good application in burns and exceri-

ations, from whatever cause.

EMOLLIENT OINTMENT.—Take of palm oil, two pounds; olive oil, a pint and a half; yellow wax, half a pound; Venice turpentine, a quarter of a pound. Melt the wax in the

oils over a gentle fire; then mix in the turpentine, and strain the ointment.

This supplies the place of Atthæ ointment. It may be used for

anointing inflamed parts, &c.

EYE OINTMENT.— Take of hog's lard, prepared, four ownces; white wax, two drams; tutty prepared, one ounce; melt the wax with the lard over a gentle fire, and then fprinkle in the tutty, continually stirring them till the ointment is cold.

This ointment will be more efficacious, and of a better confiftence, if two or three drams of camphor be rubbed up with a little

oil, and intimately mixed with it.

Another.—Take of camphor, and calamine from levigated, each fix drams; verdigrife well prepared, two drams; hog's lard, and mutton fuet, prepared, of each two ounces. Rub the camphor well with the powder; afterwards mix in the lard and fuet, continuing the triture till they are perfectly united.

This ointment has been long in esteem for diseases of the eyes.— It ought, however, to be used with caution, when the eyes are

much inflamed, or very tender.

ISSUE OINTMENT.—Mix half an ounce of Spanish flies, finely powdered, in fix ounces of yellow basilicon ointment.

This ointment is chiefly intended for dreffing blifters, in order to

keep them open during pleafure,

OINTMENT OF LEAD.—Take of olive oil, half a pint; white wax, two ounces; fugar of lead, three drams. Let the fugar of lead, reduced into a fine powder, be rubbed up with fome part of the oil, and afterwards added to the other ingredients, previously melted together, continually stirring them till quite cold.

This cooling and gentle astringent ointment may be used in all cases where the intention is to dry and skin over the parts, as in

scaldings, &c.

MERCURIAL OINTMENT.—Take of quickfilver, two ounces; hog's lard, three ounces; mutton fuet, one ounce. Rub the quickfilver with an ounce of the hog's lard in a warm mortar, till the globules be perfectly extinguished; then rub it with the rest of the lard and suet, previously melted together.

The principal intention of this ointment is to convey mercury

into the body, by being rubbed upon the skin.

OINTMENT OF SULPHUR.—Take of hog's lard, prepared, four ounces; flour of fulphur, an ounce and an half; crude fal ammoniac, two drams; effence of lemon, ten or twelve drops. Make them into an ointment.

This ointment, rubbed upon the parts affected, will generally cure the itch. It is both the fafett and best application for that purpose, and, when made in this way, has no disagreeable small.

WHITE OINTMENT. - Take of olive oil, one pint; white wax and sperma ceti, of each three ounces. Melt them with a gentle heat, and keep them constantly and briskly stirring together, till quite cold.

If two drains of camphor, previously rubbed with a small quantity of oil, be added to the above, it will make the white camphorated

LINIMENT FOR BURNS.—Take equal parts of Florence oit, or fresh drawn linfeed oil, and lime water; shake them well together in a wide-mouthed bottle, so as to form a liniment.

This is tound obe an exceeding proper application for recent scalds or burns. It may either be spread upon a cloth, or the parts

affected may be anointed with it twice or thrice a-day.

WHITE LINIMENT.—This is made in the fame manner as

the white cintment, two thirds of the wax being left out.

This liniment may be applied in cases of excoriation, where, on account of the largeness of the surface, the ointments with lead or

calamine might be improper.

LINIMENT FOR THE PILES .- Take of emollient ointment, two ounces; liquid landanum, half an ounce. Mix thefe ingredients with the yolk of an egg, and work them well together.

VOLATILE LINIMENT.—Take of Florence oil, an ounce, spirit of hartshorn, half an ounce. Shake them together.

This liniment, made with equal parts of the spirit and oil, will be

more efficacious, where the patient's skin is able to bear it.

Sir John Pringle observes, that in the instammatory quinsey, a piece of flunnel, montened with this liniment, and applied to the shroat, to be renewed every four or five hours, is one of the most efficacious remedies; and that it feldom fails, after bleeding, either to letten or carry off the complaint. The truth of this observation I have often exp. rienced.

CAMPHORATED OIL .- Rub an ounce of camphor, with two ounces of Florence oil, in a mortar, till the camphor be entirely

williolved.

This antispassinodic liniment may be used in obstinate rhoumarains, and in some other cases accompanied with extreme pain and unfien of the parts.

MEDICINES which operate in a small dose, and whose disa-Vi greeable talte, or finell, makes it necessary that they thould be concealed from the palate, are most commodiously exhibited in this form. No medicine, however, that is intended to operate enrickly, ought to be made into pills, as they often lie for a confiderwhile time on the flomach, before they are diffolized, to as to produce EDY LECOL

As the ingredients which enter the composition of pills are generally so contrived, that one pill of an ordinary fize may contain about five grains of the compound, in mentioning the dose we shall not specify the number of pills to be taken; as one two three, &c.

COMPOSING PILL.—Take of purified opium, ten grains; Castile soap, half a dram. Beat them together, and form the whole

into twenty pills.

When a quieting draught will not fit upon the stomach, one,

two, or three of these pills may be taken, as occasion requires.

FŒTID PILLS.—Take of asasociida, half an ounce; simple

fyrup, as much as is necessary to form it into pills.

In hysteric complaints, four or five pills, of an ordinary fize, may be taken twice or thrice a-day. They may likewise be of service to persons afflicted with the asthma.

When it is necessary to keep the body open, a proper quantity of rhubarb, aloes, or jalap, may occasionally be added to the above

mass.

HEMLOCK PILLS.—Take any quantity of the extract of hemlock, and adding to it about a fifth part its weight of the power of the dried leaves, form it into pills of the ordinary fize.

The extract of hemlock may be taken from one grain to feveral drams in the day. The best method however of using these pills is to begin with one or two, and to increase the dose gradually, as far as the patient can bear them, without any remarkable degree of

stupor or giddiness.

MERCURIAL PILL.—Take of purified quickssilver and honey, each half an ounce. Rub them together in a mortar, till the globules of mercury are perfectly extinguished; then add of Castile soap, two drams, powdered liquorice, or crum of bread a sufficient quantity to give the mass a proper consistence for pills.

When stronger mercurial pills are wanted, the quantity of quick-

filver may be doubled.

The dose of these pills is different, according to the intention with which they are given. As an alterant, two or three may be taken daily. To raise a salivation, sour or sive will be necessary.

Equal parts of the above pill and powdered rhubarb made into a mass, with a sufficient quantity of simple syrup, will make a

Mercurial purging Pill.

MERCURIAL SUBLIMATE PILL.—Diffolve fifteen grains of the corrofive sublimate of mercury in two draws of the saturated folution of crude sal ammoniac, and make it into a paste, in a glass mortar, with a sufficient quantity of the crumb of bread. This mass must be formed into one hundred and twen y pills.

This pill, which is the most agreeable form of exhibiting the fublimate, has been found efficacious, not only in curing the venereal disease, but also in killing and expelling worms, after other powerful medicines had failed.\*

For the venereal disease, sour of these pills may be taken twice

a-day, as an alterant three, and for worms two:

PLUMMER'S PILL.—Take of calomel, or sweet mercury, and precipitated sulphur of antimony, each three drams; extract of liquorice, two drams. Rub the sulphur and mercury well together; afterwards add the extract, and, with a sufficient quantity

of the inucilage of gum arabic, make them into pills.

This pill has been found a powerful, yet fafe, alterative in obflinate cutaneous diforders; and has completed a cure after falivation had failed. In venereal cases it has likewise produced excellent effects. Two or three pills of an ordinary fize may be taken night and morning, the patient keeping moderately warm, and drinking after each dose a draught of decoction of 'woods, or of sarfaparilla.

PURGING PILLS.—Take of foccotorine aloes, and Castile foap, each two drams; of simple fyrup, a sufficient quantity to

make them into pills.

Four or five of these pills will generally prove a sufficient purge. For keeping the body gently open, one may be taken night and morning. They are reckoned both deobstruent and stomachic, and will be found to answer all the purposes of Dr. Anderson's pills, the principal ingredient of which is aloes.

Where albetic purges are improper, the following, pills may be

used

Take extract of jalap, and vitriolated tartar, of each two drams, fyrop of ginger as much as will make them of a proper confiftence for pills.

These pills may be taken in the same quantity as the above.

PILL FOR THE JAUNDICE.—Take of Castile soap, soccotorine, aloes, and rhubarb, of each one dram. Make them into

pills with a sufficient quantity of syrup or mucilage.

These pills, as their title expresses, are chiefly intended for the jaundice, which, with the assistance of proper diet, they will oftent cure. Five or six of them may be taken twice a-day, more or less, as is necessary to keep the body open. It will be proper, however, during their use, to interpose now and then a vomit of ipecacuanha or tartar emetic.

<sup>\*</sup> See a paper on this subject in the Edinburgh Physical and Literary Egys, by the ingenious Dr. John Gardner.

STOMACHIC PILL.—Take extract of gentian, two drams; powdered rhubarb, and vitriolated tartar, of each one dram; oil of mint, thirty drops; simple syrup, a sufficient quantity.

Three or four of these pills may be taken twice a day, for invi-

gorating the stomach, and keeping the body gently open.

SQUILL PILLS.—Take powder of dried squills, a dram and a haif; gum ammoniac, and cardamom seeds, in powder, of each three drams; simple syrup, a sufficient quantity.

In dropfical and asthmatic complaints, two or three of these pills may be taken twice a day, or oftener, if the stomach will bear

them.

STRENGTHENING PILL.—Take foft extract of the bank,

and falt of steel, each a dram. Make into pills.

In disorders arising from excessive debility, or relaxation of the solids, as the cholorofis, or green sickness, two of these pills may be taken three times a day.

PLASTERS.

PLASTERS ought to be of a different confishence, according to the purposes for which they are intended. Such as are to be applied to the breasts or stomach ought to be soft and yielding; while those designed for the limbs should be firm and adhesive.

It has been supposed, that plasters might be impregnated with the virtues of different vegetables, by boiling the recent vegetable with the oil employed for the composition of the plaster; but this treatment does not communicate to the oils any valuable qualities.

The calces of lead boiled with oils unite with them into a plaster of a proper consistence, which make the basis of several other plasters. In boiling these compositions, a quantity of hot water must be added from time to time to prevent the plaster from burning or growing black. This, however, should be done with care, lest it

canfe the matter to explode.

COMMON PLASTER.—Take of common elive oil, fix pints; litharge reduced to a fine powder, two pounds and a half. Boil the litharge and oil together over a gentle fire, continually flirting them, and keeping always about half a gallon of water in the vessel; after they have boiled about three hours, a little of the plaster may be taken out and put into cold water, to try if it be of a proper consistence; when the is the case, the whole may be suffered to cool, and the water well fed out of it with the hands.

This platter is generally plied in flight wounds and excoriations of the fkin. It keeps the part foft and warm, and defends it from the air, which is all the senecestary in such cases. Its principal

use, however, is to serve as a basis for other plasters.

ADHESIVE PLASTER.—Take of common plaster, half a pound; of Burgundy pitch, a quarter of a pound Melt them together.

This plaster is principally used for keeping on other dressings.

ANODYNE PLASTER.—Melt an ounce of adhefive plaster, and when it is cooling, mix with it a dram of powdered opium, and the same quantity of camphor, previously rubbed up with a little oil.

This plaster generally gives ease in acute pains, especially of the

nervous kind.

BLISTERING PLASTER.—Take of Venice turpentine, fix ounces; yellow wax, two ounces; Spanish slies in fine powder, three ounces; powdered mustard, one ounce. Melt the wax, and while it is warm, add to it the turpentine, taking care not to evaporate it by too much heat. After the turpentine and wax are sufficiently incorporated, sprinkle in the powders, continually stirring the mass till it be cold.

Though this plaster is made in a variety of ways, one seldom meets with it of a proper confishence. When compounded with oils and other greaty substances, its effects are blunted, and it is apt to run; while pitch and resin render it too hard and very inconve-

nient.

When the bliftering plaster is not at hand, its place may be supplied by mixing with any soft ointment, a sufficient quantity of powdered slies; or by forming them into a paste with flour and vinegar.

GUM PLASTER.—Take of common plaster, four pounds; gum ammoniac and galbanum, strained, of each half a pound. Melt them together, and add, of Venice turpentine, fix ounces.

This plaster is used as a digestive, and likewise for discussing in-

dolent tumours.

MERCURIAL PLASTER.—Take of common platter, one pound; of gum ammoniac, Arained, half a pound. Melt them together, and, when -cooling, add eight ounces of quickfilver, previously extinguished by triture, with three ounces of hog's lard.

This plaster is recommended in pains of the limbs arising from a venereal cause. Indurations of the glands, and other violent tu-

mours, are likewise found sometimes to yield to it.

STOMACH PLASTER.—Take of gum plaster, half a pound; camphorated oil, an ounce and a half; black pepper, or capsicum, where it can be had, one ounce. Melt the plaster, and mix with it the oil; then sprinkle in the pepper, previously reduced to a fine powder.

An ounce or two of this plaster, spread upon soft leather, and applied to the region of the stomach, will be of service in flatulen-

cies arifing from hysteric and hypocondriac affections. A little of the expressed oil of mace, or a tew drops of the essential oil of mint, may be rubbed upon it before it is applied.

This may supply the place of the antihysteric Plaster.

WARM PLASTER.—Take of gum plaster, one ounce; bliftering plaster, two drams. Melt them together over a gentle sire.

This plaster is useful in the sciatica, and other fixed pains of the rheumatic kind: it ought, however, to be worn for some time, and to be renewed at least once a week. If this is found to blister the part, which is sometimes the case, it must be made with a smaller proportion of the blistering plaster.

WAX PLASTER.—Take of yellow wax, one pound; white refin, half a pound; mutton suct, three quarters of a pound.—

Melt them together.

This is generally used instead of the melilot plaster. It is a proper application after blisters, and in other cases where a gentle digestive is necessary.

OWDERS.

THIS is one of the most simple forms in which medicine can be administered. Many medicinal substances, however, cannot be reduced into powder, and others are too disagrecable to be taken in this form:

The lighter powders may be mixed in any agreeable thin liquor, as tea, or water gruel. The more ponderous will require a more

consistent vehicle, as syrup, conserve, jelly, or honey.

Gums, and other fubstances which are difficult to powder, should be pounded along with the dried ones; but those which are too dry, especially aromatics, ought to be sprinkled during their pulverization, with a few drops of any proper water.

Aromatic powders are to be prepared only in small quantities at a time, and kept in glass vessels closely stopped. Indeed, no powders ought to be exposed to the air, or kept too long, otherwise

their virtues will be in a great measure destroyed.

ASTRINGENT POWDER.—Take of alum and Japan earth, each two drams. Pound them together, and divide the whole into ten or twelve doses.

In an immoderate flow of the menses, and other hæmorrhages, one of these powders may be taken every hour, or every half hour,

if the discharge be violent.

POWDER OF BOLE.—Take of bole armenic, or French bole, two ounces; cinnamon, one ounce; tormentil root and gum arabic, of each fix drams; long pepper, one dram. Let all these ingredients be reduced into a powder.

This warm, glutinous, aftringent powder, is given in fluxes,

and other disorders where medicines of that class are necessary, in

the dose of a scruple or half a dram.

If a dram of opium be added, it will make the powder of bole with spium, which is a medicine of confiderable efficacy. It may be taken in the same quantity as the former, but not above twice or thrice a-day.

CARMINATIVE POWDER.—Take of coriander feed, half an ounce; ginger, one dram; numegs, half a dram; fine fugar, a dram and a half. Reduce them into powder for twelve dofes.

This powder is employed for expelling flatulencies arising from indigestion, particularly those to which hysteric and hypocondriac persons are so liable. It may likewise be given in small quantities to children in their food, when troubled with gripes.

DIURETIC POWDER.—Take of gum arabic, four ounces; purified nitre, one ounce. Pound them together, and divide the

whole into twenty-four doses."

During the first stage of the venereal disease, one of these cooling powders may be taken three times a-day, with considerable advan-

tage.

AROMATIC OPENING POWDER.—Take of the best Turkey rhubarb, cinnamon, and fine sugar, each two drams.—Let the ingredients be pounded, and afterwards mixed well together.

Where flatulency is accompanied with costiveness, a tea-spoonful of this powder may be taken once or twice a-day, according to cir-

cumstances.

SALINE LAXATIVE POWDER.—Take of foluble tartar, and cream of tartar, each one drain; purified nitre, half a dram. Make them into a powder.

In fevers, and other inflammatory disorders, where it is necessary to keep the body gently open, one of these cooling laxative powders

may be taken in a little gruel, and repeated occasionally.

STEEL POWDER.—Take filings of steel, and loaf sugar, of each two ounces; ginger, two drams. Pound them together.

In obstructions of the menses, and other cases where steel is proper, a tea spoonful of this powder may be taken twice a-day, and washed down with a little wine or water.

SUDORIFIC POWDER.—Take purified nitre and vitriolated tartar, of each half an ounce; opium and ipecacuanha, of each one drain. Mix the ingredients, and reduce them to a fine powder.

This is generally known by the name of Dover's powder. It is a powerful fudorific. In obstinate rheumatisms, and other cases where it is necessary to excite a copious sweat, this powder may be administered in the dose of a scruple or half a dram. Some patients will require two scruples. It ought to be accompanied with the plentiful use of some warm diluting liquor.

WORM POWDER.—Take of tin reduced into a fine powder, an ounce; Æthiop's mineral, two drams. Mix them well together, and divide the whole into fix dofes.

One of these powders may be taken in a little syrup, honey, or treacle, twice a-day. After they have been all used, the following

authelmintic purge may be proper.

PURGING WORM POWDER.—Take of powdered rhubarb, a scruple; seammony and calomel, of each five grains. Rub them together in a mortar for one dose.

For children, the above dofes must be lessened according to their

age.

If the powder of tin be given alone, its dose may be considerably increased. The late Dr. Alston gave it to the amount of two ounces in three days, and says, when thus administered, that it proved an egregious anthelmintic. He purged his patients before they took

the powder and afterwards.

POWDER FOR THE TAPE-WOR! M.—Early in the morning the patient is to take in any liquid, two or three drams, according to his age and constitution, of the root of the male fern, reduced into a fine powder. About two hours afterwards, he is to take of calomel and refin of scammony, each ten grains; gum gamboge, six grains. These ingredients must be finely powdered, and given in a little syrup, honey, treacle, or any thing that is most agreeable to the patient. He is then to walk gently about, now and then drinking a dish of weak green tea, till the worm is passed. If the powder of the fern produces name, or sickness, it may be removed by sucking the juice of an orange or lemon.

This medicine, which has long been kept a fecret abroad, for the cure of the tape worm, was some time ago purchased by the French King, and made public for the benefit of mankind. Not having had an opportunity of trying it, I can say nothing from experience concerning its efficacy. It seems, however, from its ingredients, to be an active medicine, and ought to be taken with care. The dose here prescribed is sufficient for the strongest patient; it must, therefore, be reduced according to the age and con-

stitution.

S Y R U P S.

SYRUPS were some tiline ago looked upon as medicines of confiderable value. They are at present, however, regarded chiefly as vehicles for medicines of greater efficacy; and are used for sweetening draughts, juleps, or mixtures; and for reducing the lighter powders into bolotes, pills, and electuaries. As all these purposes may be answered by the simple syrup alone, there is linke occasion for any other; especially as they are seldem found but in a state of fermentation; and as the dose of any medicine given in this

form is very uncertain. Persons who serve the public must keep whatever their customers call for; but to the private practitioner nine tenths of the fyrups usually kept in the thops are unnecessary.

SIMPLE SYRUP, Is made by diffolving in water, either with

or without heat, about double its weight of fine fugar.

If twenty-five drops of laudanum be added to an ounce of the simple fyrup, it will supply the place of a diacodium, or the syrup of poppies, and will be found a more sase and certain medicine.

The lubricating virtues of the fyrup of marshmallows may likewife be supplied by adding to the common syrup a sufficient quanti-

ty of mucilage of gum arabic.

Those who choose to preserve the juice of lemons in form of syrup, may diffolve in it, by the heat of a warm bath, nearly double its weight of fine figar. The inice ought to be previously strained,

and fuffered to stand till it settles.

The fyrup of ginger is sometimes of use as a warm vehicle for giving medicines to persons afflicted with statulency. It may be made by infusing two ounces of bruised ginger in two pints of boiling water for twenty-four hours. After the liquor has been strained, and has stood to fettle for some time, it may be poured off, and a little more than double its weight in fine powdered fugar diffolved in it.

TINCTURES, ELIXIRS, &c.

RECTIFIED spirit is the direct menstruum of the resins and effential oils of vegetables, and totally extracts these active principles from fundry substances, which yields them to water, ei-

ther not at all, or only in part.

It dissolves likewise those parts of animal substance in which their peculiar smells and tastes raside. Hence the tinctures prepared with rectified spirits form a useful and elegant class of medicines, possessing many of the most effential virtues of simples, without being clogged with their inert or useless parts.

Water, however, being the proper menstruum of the gummy, faline, and faccharine parts of medical fubstances, it will be necesfary, in the preparation of several tinctures, to make use of a weak

spirit, or a composition of reclified spirit and water.

AROMATIC TINCTURE.—Infuse two onnces of Jamaica pepper in two pints of brandy, without heat, for a few days, then. Brain off the tincture.

I his simple tindure will sufficiently answer all the intentions of the more costly preparations of this kind. It is rather too hot to be taken by itself; but is very proper for mixing with such medicines as might otherwise prove too cold for the ston ach.

COMPOUND TINCTURE OF THE BARK .- Take of Peruvian bark, two ounces; Sevilte orange peel and cinnamon. of each half an ounce. Let the bark be powdered, and the other ingredients bruiled; then infuse the whole in a pint and a half of brandy, for five or fix days, in a close vessel; afterwards strain off

This tineture is not only beneficial in intermitting fevers, but also in the flow, nervous, and putrid kinds, especially towards their

The dole is from one dram to three or four, every fifth or fixth hour. It may be given in any fuitable liquor, and occasionally sharpened with a few drops of the spirit of vitriol.

VOLATILE FŒTID TINCTURE.—Infuse two ounces of asafœtida in one pint of volatile aromatic spirit, for eight days, in a

close bottle, frequently shaking it; then strain the tincture.

This medicine is beneficial in hysteric disorders, especially when attended with lowness of spirits, and faintings. A tea-spoonful of it may be taken in a glass of wine, or a cup of pennyroyal

VOLATILE TINCTURE OF GUM GUAIACUM .-Take of gum guaiacum, four ounces; volatile aromatic spirit, a pint. Infuse without heat, in a vessel well stopped, for a few days, then strain off the tincture.\*

In rheumatic complaints, a tea-spoonful of this tincture may be taken in a cup of the infusion of water-trefoil, twice or thrice a

day.

TINCTURE OF BLACK HELLEBORE.—Infuse two ounces of the roots of black hellebore, bruised, in a pint of proof spirit, for seven or eight days; then filter the tincture through paper. A scruple of cochineal may be insused along with the roots, to give the tincture a colour.

In obstructions of the menses, a tea-spoonful of this tincture may

ASTRINGENT TINCTURE.—Digest two ounces of guin kino, in a pint and a half of brandy, for eight days; afterwards strain it for ule.

This tincture, though not generally known, is a good aftringent medicine. With this view, an ounce, or more, of it, may be taken

three or four times a day.

TINCTURE OF MYRRH AND ALOES .- Take of gum myrrh, an ounce and a half; hepatic aloes, an ounce. Let them be reduced to a powder, and infused in two pints of rectified spirits, for fix days, in a gentle heat; then strain the tincture.

<sup>\*</sup> A very good tineture of guaiacum, for domestic use, may be made by infusing two or three sunces of the gum, in a bottle of rum or brandy.

This is principally used by surgeons for cleansing foul ulcers, and restraining the progress of gangrenes. It is also, by some, recommended as a proper application to green wounds.

TINCTURE OF OPIUM, OR LIQUID LAUDANUM.

Take of crude opium, two ounces; spiritous aromatic water, and mountain wine, of each ten ounces. Dissolve the opium, sliced, in the wine, with a gentle heat, frequently stirring it; afterwards add the spirit, and strain off the tincture.

As twenty five drops of this tindure, contain about a grain of

opium, a common dose may be from twenty to thirty drops.

SACRED TINCTURE, OR TINCTURE OF HIERA PICRA.—Take of second aloes in powder, one ounce; Virginia snake root and ginger, of each two drams. Insuse in a pint of mountain wine, and half a pint of brandy, for a week, frequently the king the bottle; then strain off the tincture.

This is a fufe and useful purge for persons of a languid and phlegmaric habit; but is thought to have better effects taken in small

doses as a laxative.

The dose, as a purge, is from one to two ounces.

COMPOUND TINCTURE OF SENNA.—Take of fenna, one ounce; jalap, coriander feeds, and cream of tartar, of each an ounce. Infuse them in a pint and a half of French brandy, for a week; then strain the tincture, and add to it four ounces of fine fugar.

This is an agreeable purge, and answers all the purposes of the

Elixir falutus, and of Daffy's Elixir.

The dose is from one to two or three ounces.

TINCTURE OF SPANISH FLIES.—Take of Spanish flies, reduce them to a fine powder, two ounces; spirit of wine, one pint. Infuse for two or three days, then strain off the tincture.

This is intended as an acrid stimulant for external use. Parts affected with the passey or chronic rheumatism may be frequently

rubbed with it.

TINCTURE OF THE BALSAM OF TOLU.—Take of the balfam of Tolu, an ounce and a half; rectified spirit of wine, a piut. Insufe in a gentle heat until the balfam is dissolved, then strain the tincture.

This tincture possesses all the virtues of the balsam. In coughs, and other complaints of the breast, a tea-spoonful or two of it may be taken in a bit of loss sugar. But the best way of using it is in syrup. An ounce of the tincture, properly mixed with two pounds of simple syrup, will make what is commonly called the Bolsamie syrup.

TINCTURE OF RHUBARB.—Take of rhubarb, two ounces and a half, leffer cardamom feeds, half an ounce; brandy two pints. Digest for a week, and strain the tincture.

Those who choose to have a vinous tineture of rhebarb may infuse the above ingredients in a bottle of Lisbon wine, adding to it

about two ounces of proof spirits.

If half an ounce of gentian root, and a drachm of Virginian inake-root be added to the above ingredients, it will make the bitter

tincture of rhubarb.

All these tinctures are designed as stomachics and corroborauts as well as purgatives. In weakness of the stomach, indigestion, laxity of the intestines, shuxes, cholicy and such like complaints they are frequently of great service. The dose is from half a spoonful to three or sour spoonfuls or more, according to the circumstances of the patient, and the purposes it is intended to answer.

PAREGORIC ELIVIR.—Take of flowers of benzoin, half an ounce; opium, two sams. Infuse in one pound of the volatile aromatic spirit, for four or five days, frequently shaking the bottle;

afterwards strain the clixir.

This is an agreeable and fafe way of administering opium. It eases pain, allays tickling coughs, relieves difficult breathings, and is useful in many disorders of children, particularly the hooping cough.

The dose to an adult is from fifty to a hundred drops.

SACRED ELIXIR.—Take of Rhubarb cut finall, ten drams; fuecotorine aloes, in powder, fix drams; leffer cardamom feeds, half an ounce; French brandy, two pints. Infuse for two or three days, and then strain the elixir.

This useful stomachic purge may be taken from one cunce to an

ounce and an half.

STOMACHIC ELIXIR — Take of gentian root, two ounces; Curracoa oranges, one ounce; Virginia snake-root, half an ounce. Let the ingredients be bruifed, and insufed for three or four days in two pints of French brandy; afterwards strain out the clixir.

This is an elegant stomachic bitter. In flatulencies, indigestion, want of appetite, and such like complaints, a small glass of it may be taken twice a day. It likewise relieves the gout in the stomach,

when taken in a large dofe.

ACID ELIXIR OF VITRIOL.—Take of the aromatic tincture, one pint; oil of vitriol, three onnees. Mix them gradually, and after the fæces have subsided, filter the elixir through paper in a glass funnel.

This is one of the best medicines which I know for hysteric and hypocondriac patients, afflicted with flamencies arising from relaxation or debility of the stomach and intestines. It will succeed

where the most celebrated stomachic bitters have no efficit. The dose is from ten to forty drops, in a glass of wine or water, or a cup of any bitter infusion, twice or thrice a-day. It should be taken when the stomach is most empty.

CAMPHORATED SPIRIT OF WINE, -Diffolvo an ounce

of camphor in a pint of rectified spirits.

This folution is chiefly employed as an embrocation in bruifes, palfies, the chronic rheumatifm, and for preventing gangrenes.

The above quantity of camphor, diffolved in half a pound of the

volatile aromatic spirit, makes Ward's Essence.

SPIRIT OF MINDERERUS.—Take of volatile fal ammoniac, any quantity. Pour on it gradually, distilled vinegar, itill the effervescence ceases.

This medicine is useful in promoting a discharge both by skin and urinary passage. It is also a good external application in strains

and bruises.

When intended to raise a sweat, half are cunce of it in a cup of warm gruel may be given to the patient in bed every hour till it has the defired effect.

VINEGARS.

VINEGAR is an acid produced from vinous liquors by a fecond fermentation. It is a useful medicine both in inflammatory and putrid disorders. Its effects are, to cool the blood, quench thirst, counteract a tendency to putrefaction, and allay inordinate motions of the system. It likewise promotes the natural secretions, and in some cases excites a copious sweat, where the warm medicines, called elexipharmic, tend rather to prevent that salutary evacuation.

Weakness, faintings, vomitings, and other hysteric affections, are often relieved by vinegar applied to the mouth and nose, or received into the stomach. It is of excellent use also in correcting many poisonous substances, when taken into the stomach; and in promoting their expulsion, by the different emunctories, when re-

ceived into the blood.

Vinegar is not only a useful medicine, but serves likewise to extract, in tolerable persection, the virtues of several other medicinal substances. Most of the odoriferous flowers impart to it their fragrance, together with a beautiful purplish or red color. It also assists or coincides with the intention of squills, garlie, gum ammoniae, and several other valuable medicines.

These effects, however, are not to be expected from every thing that is sold under the name of vinegar, but from such as is sound,

and well prepared.

The best vinegars are those prepared from French wines.

It is necessary for some purposes that the vinegar be distilled; but as this operation requires a particular chymical apparatus, we shall not infert it.

VINEGAR OF LITHARGE. - Take of litharge, half a pound; "trong vinegar, two pints. Infufe them together in a moderate heat for three days, frequently shaking the vessel; then filter

the liquor for use.

This medicine is little used, from a general notion of its being dangerous. There is reason, however, to believe, that the preparations of lead with vinegar are possessed of some valuable properties, and that they may be used in many cases with safety and succels.

A preparation of a similar nature with the above, has of late been extolled by Gouland, a French furgeon, as a fafe and extensively useful medicine, which he calls the Extract of Saturn, and orders

to be made in the following manner:

Take of litharge, one pound; vinegar made of French wine, two pints. Put them together into a glazed earthen pipkin, and let them boil, or rather simmer, for an hour, or an hour and a quarter, taking care to flir them all the while with a wooden spatula.—After the whole has stood to settle, pour off the liquor which is upon the top, into bottles, for use.

With this extract Gouland makes his vegeth mineral water\*, which he recommends in a great variety of external disorders, as inflam-

mations, burns, bruises, sprains, ulcers, &c.

He likewise prepares with it a number of other forms of medi-

cine, as poultices, plasters, ointments, powders, &c.

VINEGAR OF ROSES .- Take of red roles, half a pound; strong vinegar, half a gallon. Infuse in a close vessel for several weeks, in a gentle heat; and then strain off the liquor.

This is principally used as an embrocation for head-aches, &c.

VINEGAR OF SQUILLS.— Take of dried squills, two ounces; distilled vinegar, two pints. Insuse for ten days or a fortnight, in a gentle degree of heat, afterwards strain off the liquor, and add to it about a twelfth part of its quantity of proof spirits.

This medicine has good effects in disorders of the breast, occasioned by a load of vicid phlegm. It is also of use in hydropic

cases for promoting a discharge of urine.

The dose is from two drams to two ounces, according to the intention for which it is given. When intended to act as a vomit. the dose ought to be large. In other cases, it must not only be ex-

<sup>\*</sup> See Collyrium of lead.

hibited in small doses, but also mixed with cinnamon-water, or some other agreeable aromatic liquor, to prevent the nausea it might otherwise occasion.

WATERS BY INFUSION, G.

IME WATER.—Pour two gallons of water gradually upon a pound of fresh burnt quick-lime, and when the chillition ceases, stir them well together; then suffer the whole to stand at rest, that the lime may settle, and afterwards silter the liquor through paper, which is to be kept in vessels closely stopt.

The lime water from calcined oyster shells, is prepated in the

fame manner.

Lime water is principally used for the gravel; in which case, from a pint to two or more of it, may be drank daily. Externally it is used for washing foul ulcers, and removing the itch, and other diseases of the skin.

COMPOUND LIME WATER.—Take shavings of gnaiacum wood, half a pound; liquorice root, one ounce; saliafras bark, half an ounce; coriander seeds, three drains; simple lime

water, fix pints.

Infuse, without heat, for two days, and then strain off the li-

quor.

In the same manner may lime water be impregnated with the virtues of other vegetable substances. Such impregnation not only renders the water more agreeable to the palate, but also a more essications medicine, especially in cutaneous disorders, and sometimes of the blood and juices.

It may be taken in the same quantity as the simple water.

SUBLIMATE WATER.—Diffolive eight grains of the corrofive fublimate in a pint of cinnamon water.

If a stronger solution is wanted, a double or triple quantity of

sublimate may be nsed.

The principal intention of this, is to cleanfe foul ulcers, and

consume proud slesh.

STYPTIC WATER.—Take of blue vitriol and alum, each an ounce and a half; water one pint. Boil them until the falts are diffolved, then filter the liquor, and add to it a dram of the oil of vitriol.

This water is used for stoping a bleeding at the nose, and other hæmorrhages; for which purpose cloths or dossils dipt in it must be

applied to the part.

TAR WATER.—Pour a gallon of water on two pounds of Norway tar, and stir them strongly together with a wooden rod: after they have stood to settle for two days, pour out the water for use.

Though tar water falls greatly thort of the character which has been given of it, yet it possesses fome medical virtues. It sensibly raises the pulse, increases the secretions, and sometimes opens the body, or occasions vomiting.

A pint of it may be drank daily, or more, if the stomach can bear it. It is generally ordered to be taken on an empty stomach, viz. four ounces morning and evening, and the same quantity about

to hours after breakfast and dinner.

SIMPLE DISTILLED WATERS.

GREAT number of diffilled waters were formerly kept in the fliops, and are still retained in some dispensatories. But we consider them chiefly in the light of grateful diluents, suitable vehicles for medicines of greater efficacy, or for rendering disgustful ones more agreeable to the palare and stomach. We shall therefore insert only a few of those which are best adapted to these intentions.

The management of a still being now generally understood, it is

needless to spend time in giving directions for that purpose.

CINNAMON WATER.—Steep one pound of cinnamon bank, bruifed, in a gallon and a half of water, and one pint of brandy, for two days; and then distil off one gallon.

This is an agreeable aromatic water, possessing in a high degree

the fragrance and cordial virtues of the spice.

PENNY-ROYAL WATER.—Take of penny-royal leaves, dried, a pound and a half; water, from a gallon and a half to two gallons. Draw off by distillation one gallon.

This water possesses, in a considerable degree, the smell, taste, and virtues of the plant. It is given in mixtures and juleps to hys-

teric patients.

An infusion of the herb in boiling water, answers nearly the same

PEPPERMINT-WATER.—This is made in the fame man-

ner as the preceeding.

SPEAR MINT WATER .- This may also be prepared in the

same way as the penny-royal water.

Both these are useful stomachic waters, and will sometimes relieve vomiting, especially when it proceeds from in ligestion, or cold viscid pulegm. They are likewise useful in some cholicy complaints, the gout in the stomach, &c. particularly the peppermint water.

An infusion of the fresh plant is frequently found to have the same effects as the distilled water.

ROSE WATER.—Take of roses, fresh gathered, six pounds; water, two gallons. Distil off one gallon.

This water is principally valued on account of its fine flavour.

JAMAICA PEPPER WATER.—Take of Jamaica pepper, half a pound; water, a gallon and a half. Diftil off one gallon.

This is a very excellent distilled water, and may in most cases sup-

ply the place of the more costly spice waters.

SPIRITUOUS DISTILLED WATERS.

SPIRITUOUS CINNAMON WATER.—Take of cinnamon bark, one pound; proof spirits and common water, of each one gallon. Steep the cinnamon in the liquor for two days; then distil off one gallon.

SPIRITUOUS JAMAICA PEPPER WATER.—Take of Jamaica pepper, half a pound; proof spirit, three gallons; water,

two gallons. Distil off three gallons.

This is a fufficient agreeable cordial, and may supply the place of the Aromatic Water.

W H E Y S.

A LUM WHEY.—Boil two drams of powdered alum in a pint of milk, till it is curdled; then strain out the whey.

This whey is beneficial in an immoderate flow of the menses,

and in diabetes, or excessive discharge of urine.

The dose is two, three, or four ounces, according as the sto-mach will bear it, three times a-day. If it should occasion vomit-

ing, it may be diluted.

MUSTARD WHEY.—Take milk and water, of each a pint; bruifed mustard feed, an ounce and a half. Boil them together till the curd is perfectly separated; afterwards strain the whey through a cloth.

This is the most elegant, and by no means the least efficacious method of exhibiting mustard. It warms and invigorates the habit, and promotes the different secretions. Hence, in the low state of nervous severs, it will often supply the place of wine. It is also of use in the chronic rheumatism, palfy, dropsy, &c. The addition of a little sugar will render it more agreeable.

The dose is an ordinary tea-cupful, four or five times a-day.

SCORBUTIC WHEY.—This whey is made by boiling half a pint of the scorbutic juices in a quart of cow's milk. More benefit, however, is to be expected from eating the plants, than from their expressed juices.

The scorbutic plants are, bitter oranges, brooklime, garden

fenryy grafs, and water-creffes.

A number of other wheys may be prepared nearly in the same manner, as orange whey, cream of tartar whey, &c. These are cooling pleasant drinks in severs, and may be rendered cordial, when necessary, by the addition of wine.

#### WINES.

THE effects of wine are, to raise the pulse, promote perspiration, warm the habit, and exhilerate the spirits. The red wines, besides these effects, have an astringent quality, by which they strengthen the tone of the stomach and intestines, and by this means prove serviceable in restraining immoderate secretions.

The thin sharp wines have a different tendency. They pass off freely by the different emunctories, and gently open the body. The effects of the full bodied wines are, however, much more durable

than those of the thinner.

All fweet wines contain a glutinous substance, and do not pass off freely. Hence they will heat the body more than an equal quantity of any other wine, though it should contain full as much spirit.

From the obvious qualities of wine, it must appear to be an excellent cordial medicine. Indeed, to say the truth, it is worth all

the rest put together.

But to answer this character, it must be found and good. No benefit is to be expected from the common trash that is often sold by the name of wine, without possessing one drop of the juice of the grape. Perhaps no medicine is more rarely obtained genuine than wine.

Wine is not only used as a medicine, but is also employed as a menstruum for extracting the virtues of other medicinal substances; for which it is not ill adapted, being a compound of water, inflammable spirit, and acid; by which means it is enabled to act upon vegetable and animal substances, and also to dissolve some bodies of the metalic kind, so as to empregnate itself with their virtues, as steel, antimony, &c.

ANTHELMINTIC WINE.—Take of rhubarb, half an ounce; worm feed, an ounce. Bruife them and infuse without heat in two pints of red port wine for a few days, then strain off

the wine.

As the stomachs of persons afflicted with worms are always debilitated, red wine alone will often prove serviceable; it must, however, have still better effects when joined with bitter and purgative ingredients, as in the above form.

A glass of wine may be taken twice or thrice a-day.

ANTIMONIAL WINE.—Take gloss of antimony, reduced to a fine powder, half an ounce; Lisbon wine, eight cunces. Digest, without heat, for three or four days, now and then shaking the bottle; afterwards filter the wine through paper.

The dose of this wine varies according to the intention. As an alterative and diaphoretic, it may be taken from ten to fifty or

fixty drops. In a large dose it generally proves cathactic, or excites

vomiting.

BITTER WINE.—Take of gentian root, yellow rind of lemon peel, fresh, each one ounce; long pepper, two drams; monntain wine, two pints. In sufe without heat for a week, and strain out the wine for use.

In complaints ariting from weakness of the stomach, or indigestion, a glass of this wine may be taken an hour before dinner and

Supper.

IPECACUANHA WINE.—Take of ipecacuanha, in powder, one ounce; mountain wine, a pint. Infuse for three or four

days; then filter the tincture.

This is a fafe vomit, and answers extremely well for such perfens as cannot swallow the powder, or whose stomachs are too irritable to bear it.

The dofe is from one ounce to an ounce and a half.

CHALYBEATE OR STEEL WINE.—Take filings of iron, two ounces; connamon and mace, of each two drams; Rhenith wine, two pints. Infuse for three or four weeks, frequently shaking the bottle; then pass the wine through a filter.

In obstructions of the menses, this preparation of iron may be

taken, in the dose of half a wine glass twice or thrice a-day,

The medicine would probably be as good if made with Lift in wine, sharpened with half an ounce of the cream of tartar, or a

finall quantity of the vitriolic acid.

STOMACH WINE.—Take of Pauvian bank, grossly powdered, an ounce; cardamoin feeds, and orange peel, bruised, of each two drams. Infuse in a bottle of white port or Lisbon wine

for five or fix days, then strain of the wine.

This wine is not only of fervice in dibility of the stomach and intestines, but may also be taken as a preventive, by persons liable to the intermittent sever, or who reside in places where this disease prevails. It will be of use likewise to those who recover slowly after severs of any kins, as it assists digestion, and helps to restore the tone and vigour of the system.

A glass of it may be taken two or three times a-day.

A

# GLOSSARY.

ALTHOUGH terms of art have been fedulously avoided in the composition of this treatile, it is impossible entirely to banish technical phrases when writing on medicine, a science that has been less generally attended to by mankind, and continues therefore to be more insected with the jargon of the schools, than perhaps any other. Several persons having expressed their opinion, that a Glossary would make this work more generally intelligible, the following concise explanation of the few terms of art that occur, has been added, in compliance with their sentiments, and to sulfil the original intention of this treatise, by rendering it intelligible and useful to all ranks and classes of mankind.

Α.

Abdomen. The belly.

Absorbent. Vessels that convey the nourishment from the intestines, and the secreted shids from the various cavities into the mass of blood.

Acrimony. Corrofive sharpness.

Acute. A disease, the symptoms of which are violent, and tend to a speedy termination, is called acute.

Adult. Of mature age. Adust. Dry, warm.

Antispasmodic. Whatever tends to prevent or remove spasm.

Apthæ. Small whitish ulcers appearing in the mouth.

Asiriction. A tightening, or lessening.

Atribilarian. An epithet commonly applied to people of a certain temperament, marked by a dark complexion, black hair, spare habit, &c. which the ancients supposed to arise from the atra bilis, or the black bile.

В.

Bile, or Gall. A fluid which is secreted by the liver into the gallbladder, and from thence passes into the intestincs, in order to promote digestion.

C.

Cacselymie. An unhealthy state of the body.

Caries. A rottenness of a bone.

Chyle. A milky fluid separated from the aliment in the intestines, and conveyed by the absorbents into the blood to supply the waste of the animal body.

Chrmic. A discase whose progress is slow, in opposition to acute.

2 R

Total.

Circulation. The motion of the blood, which is driven by the heart through the arteries, and returns by the veins.

Comatofe. Sleepy.

Conglobute Gland. A simple gland. Conglomerate. A compound gland.

Contagion. Infectious matter.

Cutis. The Okin.

Cutaneous. Of or belonging to the skin.

Crisis. A certain period in the progress of the disease, from whence a decided alteration either for the better or the worse takes place.

Critical. Decifive or important.

Critical days. The fourth, fifth, seventh, ninth, eleventh, thirteenth, fourteenth, feventeenth, and twenty-first, are by some authors denominated critical days, because, febrile complaints have been observed to take a decisive change at these periods.

Dehility. Weakness.

Delirium. A temporary disorder of a mental faculties.

Diaphragm. A membrane separating the cavity of the chest from that of the belly.

Diuretic. A medicine that promotes the secretion of urine.

Drastic. Is applied to such purgative medicines as are violent or harsh in their operation.

Empyema. A collection of purulent matter in the cavity of the breaft.

Endemic. A disease peculiar to a certain district of country.

Epidemic. A disease generally infectious. Exaserbation. The increase of any disease.

Fæces. Excrements.

Fætid. Emitting an offensive smell.

The child before birth, or when born before the proper period, is thus termed.

Flatulent. Producing wind.

Fungus. Proud flesh.

G.

Mortification. Gangrene.

Gummata. Venereal excrescences. Ganglia.

Gymnastic. Exercise taken with a view to preserve or restore health. The ancient physicians reckoned this an improper

branch of medicine.

Heelic Fever. A flow confuming fever, generally attending a bad habit of body, or some incurable and deep rooted disease.

The piles.

Hamorrhoids. The piles. Hamorrhage. Discharge of blood.

Hypocondriacism. Low spirits.

Hypocondriac viscera. The liver, spleen, &c. so termed from their fituation in the hypocondriac or upper and lateral parts of the belly.

I.

Ichor. Thin, bad matter.

Imposibume. A collection of purulent matter.

Inflamation. A surcharge of blood, and an increased action of the veffels, in any particular part of the body.

Ligature. Bandage. Lixivium. Ley.

M.

Miliary Eruption. Eruption of finall pistules, resembling the seeds of millet.

Morbific. Causing diseases, or diseased.

Mucus. The matter discharged from the nose, lungs, &c.

Mysentary. A double membrane which connects the intestines to the back bone.

N.

Nervous. Irritable.

Nausea. An inclination to vomit.

Nodes. Enlargements of the bones produced by the venereal disease.

Pestoral. Medicines adapted to cure diseases of the breast.

Pelvis. The bones situated at the lower part of the trunk; thus named from their refembling in some measure a bason.

Perisonaum. A membrane lining the cavity of the belly, and covering the intestines.

Pericardium. Membrane containing the heart.

Perspiration. The matter discharged from the pores of the skin, in form of vapor or sweat.

Phlogiston. Is here used to fignify somewhat rendering the air unfit for the purposes of respiration.

Phlegmatic. Watery, relaxed.
Plethoric. Replete with blood.
Polypus. A diseased excrescence, or a substance formed of coagulable lymph, frequently found in large blood veffels.

Pus. Matter contained in a bile.

Regimen. Regulation of diet.

Rectum. The straight gut, in which the socces are contained.

Respiration. The act of breathing.

S.

Saliva. The fluids fecreted by the glands of the mouth.

Sanis. A thin, bad matter, discharged from an ill-conditioned lore.

Scirrbus. A state of dileased hardness.

Slough. A part separated and thrown off by suppuration.

Spasm. A discased contraction.

Spine. The back bone.

Styptic. A medicine for stoping the discharge of blood.

Syncope. A fainting fit attended with a complete abolition of sensation and thought.

Tabes. A species of consumption.

Temperament. A peculiar habit of body, of which there are generally reckoned four, viz. the fanguine, the bilious, the melancholic, and the phlegmatic.

V.

Vertigo. Giddiness.

U.

Ulcer. An ill-conditioned fore.

Ureters. Two long and small canals, which convey the urine stom the kidneys to the bladder.

Urethra. The canal which conveys the urine from the bladder.

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